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WIND RENEWABLE ENERGY

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Wind & Renewable Energy 2016

Scientific Program

Day 1 July 28, 2016

08:30-09:00 Registrations

Experience I + II

conferenceseries.com **09:00-09:30 Opening Ceremony**

Keynote Forum

09:30-10:00 **Title: Advances in morphing wind turbine blade for wind energy conversion**
Asfaw Beyene, San Diego State University, USA

10:00-10:30 **Title: An Innovative Solution for Large Unit Capacity Wind Energy Converters Offshore**
Peter Jamieson, University of Strathclyde, UK

Coffee Break @ Main Lobby 10:30-10:45

10:45-11:15 **Title: Feasibility study on a fabric-covered wind turbine blade**
Jae-Sung Bae, Korea Aerospace University, Korea

Sessions:
Wind Power Technology | Wind Turbines Instrumentation | Wind Safety Measures |Hydro Power Technology
Renewable & Sustainable Energy

Session Introduction

Session Chair: Asfaw Beyene, San Diego State University, USA
Session Co-Chair: Modour Zgoul, American University of Madaba, Jordan

11:15-11:40 **Title: Condition Based Maintenance of Offshore Wind Turbines - Identification of critical operation conditions & determination of the next oil exchange by 24/7 Monitoring of Oil Quality, Oil Aging and Additive Consumption**
Manfred Mauntz, cmc Instruments GmbH, Germany

11:40-12:05 **Title: A software package for maintenance management of wind turbines**
Yashwant Sinha, Robert Gordon University, United Kingdom

12:05-12:30 **Title: Domestication of Wind Energy Through Integration of House-hold Fan**
Bijon Kumar Sil, The Awesome Place (TAP), Singapore

12:30-12:55 **Title: Capabilities of wind turbine ground test facilities – Benefits from standardizing test methods of blade and nacelle test centre around the world**
Dennis Bosse, RWTH Aachen University, Germany

12:55-13:20 **Title: Thermo graphic rotor blade inspection from larger distances – A promising tool for the maintenance of wind turbines**
Rainer Krankenhagen, Federal Institute for Materials Research and Testing, Germany

Group Photo

Lunch @ Element I+II Restaurant 13:20-14:00

14:00-16:00 **Work shop on An Innovative Solution for Large Unit Capacity Wind Energy Converters Offshore**
Peter Jamieson, University of Strathclyde, UK

Coffee Break @ Main Lobby 16:00-16:15

Young Researchers Forum

16:15-16:30 **Title: Development and Structural Numerical Analysis of Light Shell with Frame Diffusor**
Tomasz Szafranski, Military University of Technology, Poland

16:30-16:45 **Title: One and Double Sided Coupling Methods for Structural Analysis of Wind Power Blades**
Michał Tomaszewski, Military University of Technology, Poland

16:45-17:00 **Title: The effect of grid resolution on large - eddy - simulations for the atmospheric boundary layer**
Ioannis Bouras, University of Sheffield, UK

Sessions:

17:00-17:25 **Title:The impact of the yaw error on the performance of a horizontal axis wind turbine**
Daniele Vitali, Marche Polytechnic University, Italy

17:25-17:50 **Title: Optimization Wind Power Production in Cold Climate and Icing in Canada**
Mohammad Sadegh Eslamipour, Mapna Generator, Iran

17:50-18:15 **Title: Design, Construction, Simulation and Performance Evaluation of a Guadua Angustifolia Solar-Electric Vehicle**
Jose Alejandro Posada, Pascual Bravo University Institute, Colombia

Panel Discussion

Day 2 July 29, 2016

Experience I + II

Keynote Forum

08:30-09:00 **Title: Technological Advances in Grid Code Compliance, High Penetration and Drive Train Diagnostics of Wind Energy Conversion Systems**
Syed Islam, Curtin University, Australia

09:00-09:30 **Title: DBD Plasma Flow Control on Wind Turbine Blades**
David Greenblatt, Technion - Israel Institute of Technology, Israel

Sessions:
Wind Farms Construction | Solar Power Technology | Global trends in Renewable Energy Commercialization & Investment
Third Generation Wind Power | Ocean Energy

Session Introduction

Session Chair: Dennis Bosse, RWTH Aachen University, Germany
Session Co-Chair: A D Thirumoorthy, Chief Technical Advisor, Indian Wind Power Producers Association (IWPA)

09:30-09:55 **Title: The effect of the upstream wind conditions on the performance of a vertical axis wind turbine**
Ioannis Bouras, University of Sheffield, UK

09:55-10:20 **Title: Improving power forecasting in wind turbines using neural networks**
Bartolomé Manobel Ponce, Universidad de La Serena, Chile

10:20-10:45 **Title: Wind derivatives pricing issues**
Yeny E. Rodríguez, ICESI University, Colombia

10:45-11:10 **Title: Advanced Control for Wind Turbine Grid Connection Requirements**
Nicolò Gionfra, Laboratoire des Signaux et Systèmes, France

Coffee Break @ Main Lobby 11:10-11:25

11:25-11:50 **Title: Computational Aerodynamics Optimization of Wind Turbine's Blade Twist Angle**
Moudar Zgoul, American University of Madaba, Jordan

11:50-12:15 **Title: Assesment of Sub-Synchronous Resonance in Series Compensated Type 3 Wind Power Plant**
V.B.Virulkar, Govt. College of Engineering Amaravati (MS), India

12:15-12:40 **Title: Large Scale Integration of Renewable Energy in the Grid,Tamilnadu State's Experience**
P.R. Muralidharan, Superintending Engineer, Renewable Energy Management Centre, Tantrnasco

12:40-13:05 **Title: Case study of Power Quality Survey in Wind Farms**
A.D.Thirumoorthy, Chief Technical Advisor, Indian Wind Power Producers Association (IWPA), India

13:05-13:30 **Title:Transient and Steady-State Stability Analysis of SMIB Power System Embraced with Highly Penetrated PV Generator**
Mohammad S. Widyan, The Hashemite University, Jordan

Lunch @ Element I+II Restaurant 13:30-14:10

14:10-16:10 **Work shop on Domestication of Wind Energy Through Integration of House-hold Fan**
Bijon Kumar Sil, The Awesome Place (TAP), Singapore

Coffee Break @ Main Lobby 16:10-16:25

16:25-16:50 **Title: Combining offshore energy production in multi-use combinations: Lessons learned from Europe**
Stuiver Marian, Senior researcher at Wageningen University and Research Centre, Netherlands

Poster Presentations 16:50-17:30

WRE 01 **Title: Study on Characteristic Analysis of Generator System according to Parameter Variations of Wind Turbine**
Gap-Jin Han, Dong-A University, KOREA

WRE 02 **Title: Change in surface wind speed and its implication for wind energy over Taiwan simulated by WRF nested with ECHAM5/MPIOM**
Chuan-Yao Lin, Academia Sinica, Taiwan

WRE 03 **Title: Development of Small Wind Turbine Adopting Folded-Plate Blades and testing the performance of blades with one and two straight folded lines**
Churchill Saoke, Jomo Kenyatta University of Agricuture and technology, Kenya

WRE 04 **Title: Structural modeling of a horizontal axis wind turbine.**
Mohammad Sheibani, Ferdowsi Univeristy of Mashhad, IRAN

17:30-17:55 **Energy and the climate change: One counter-face**
Mohi El Din Kuku Bakheet, Alzaiem Alazhari University, Sudan

17:55-18:20 **Title: Seawind 6- The complete offshore wind energy system to lower the CoE**
Martin Jackubowski, Seawind Ocean Technology B.V., The Netherlands

Panel Discussion & Certificate Distribution

Day 3 July 30, 2016

Extended Networking Session & Lunch

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International Journal of Economics and Management Science	2162-6359
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Obesity & Weight Loss Therapy	2165-7904
Occupational Medicine Health Affairs	2329-6879
Omics Journal of Radiology	2167-7964
Oncology & Cancer Case Reports	-
Oncology Translational Research	-
Oral Health and Dental Management	2247-2452
Oral Health Case Reports	-
Oral Hygiene & Health	2332-0702
Orthodontics & Endodontics	-
Orthopedic & Muscular System: Current Research	2161-0533
Orthopedic Oncology	-
Osteoporosis & Physical Activity	2329-9509
Otolaryngology:Open Access	2161-119X
Otology & Rhinology	2324-8785
Pain & Relief	2167-0846
Pain Management & Medicine	-
Palliative Care & Medicine	2165-7386
Pancreatic Disorders & Therapy	2165-7092
Pediatric Care	-
Pediatric Dental Care	-
Pediatric Emergency Care and Medicine- Open Access	-
Pediatric Nephrology Practice	-
Pediatric Neurology and Medicine	-
Pediatric Nursing: Open Access	-
Pediatric Oncology: Open Access	-
Pediatric Physiotherapy	-
Pediatric Psychology and Psychiatry	-
Pediatrics & Therapeutics	2161-0665
Periodontics and Prosthodontics: Open Access	-
Pigmentary Disorders	2376-0427
Prevention Infection Control: Open Access	-
Preventive Medicine	-
Primary & Acquired Immunodeficiency Research	2324-853X
Prostate Cancer	-
Psoriasis & Rosacea Open Access	-
Psychiatry	2378-5756
Psychological Abnormalities in Children	2329-9525
Psychology & Psychotherapy	2161-0487
Pulmonary & Respiratory Medicine	2161-105x
Rare Disorders & Diseases	-
Regenerative Medicine	2325-9620
Reproductive Endocrinology & Infertility	-
Reproductive System & Sexual Disorders	2161-038x
Research & Reviews: Journal of Dental Sciences	2320-7949
Research & Reviews: Journal of Medical and Health Sciences	2319-9865
Research Journal of Biology	2322-0066
Sleep Disorders & Therapy	2167-0277
Sleep Disorders : Treatment & Care	2325-9639
Spine	2165-7939
Spine & Neurosurgery	2325-9701
Spine Research	-
Sports Medicine & Doping Studies	2161-0673
Sports Nutrition and Therapy	-
Steroids & Hormonal Science	2157-7536
Stroke Research & Therapy	-
Journal of Surgery [Jurnalul de Chirurgie]	1584-9341
Surgery: Current Research	2161-1076
The Headache Journal	-
The International Journal of Apitherapy	-
The Pancreas	1590-8577
Therapeutic Care and Physical Rehabilitation	-

Thrombosis and Circulation	-
Thyroid Disorders & Therapy	2167-7948
Translational Medicine	2161-1025
Transplant Reports : Open Access	-
Transplantation Technologies & Research	2161-0991
Trauma & Acute Care	-
Trauma & Treatment	2167-1222
Traumatic Stress Disorders & Treatment	2324-8947
Tropical Medicine & Surgery	2329-9088
Tumor Diagnostics and Reports	-
Universal Surgery	2254-6758
Vascular Medicine & Surgery	2329-6925
Vitiligo & Dermatomyositis	-
Voice Medicine & Surgery	-
Women's Health Care	2167-0420
Wound Medicine and Tissue Repair	-
Yoga & Physical Therapy	2157-7595

Microbiology

Advances in Influenza Research	-
Antimicrobial Agents	-
Antivirals & Antiretrovirals	1948-5964
Applied Microbiology: Open Access	-
Archives of Clinical Microbiology	1989-8436
Bacteriology and Parasitology	2155-9597
Clinical Infectious Diseases & Practice	-
Clinical Microbiology: Open Access	2327-5073
Colitis & Diverticulitis	-
Emerging Infectious Diseases	-
Fermentation Technology	2167-7972
Fibromyalgia: Open Access	-
Forensic Pathology	-
Hepatitis	-
Human Papillomavirus	-
Infectious Diseases and Diagnosis	-
Infectious Diseases and Therapy	2332-0877
Medical Microbiology & Diagnosis	2161-0703
Medical Mycology: Open Access	-
Meningitis	-
Mycobacterial Diseases	2161-1068
Pediatric Infectious Diseases: Open Access	-
Research & Reviews: Journal of Microbiology and Biotechnology	2320-3528
Research & Reviews: Journal of Inflammation	-
Research & Reviews: Journal of Pathology & Epidemiology	-
Virology & Mycology	2161-0517

Neuroscience

Addiction Research & Therapy	2155-6105
Alzheimers Disease & Parkinsonism	2161-0460
Autism-Open Access	2165-7890
Brain Disorders & Therapy	2168-975X
Child & Adolescent Behavior	2375-4494
Clinical & Experimental Neuroimmunology	-
Dementia & Mental Health	-
Epilepsy Journal	-
Insights in Clinical Neurology	-
International Journal of Neurorehabilitation	2376-0281
Multiple Sclerosis	2376-0389
Neurological Disorders	2329-6895
Neurology & Neurophysiology	2155-9562
Neurology and Neuroscience	2171-6625
Neuropsychiatry	-
Neuroscience & Clinical Research	-
Schizophrenia Journal	-

Health Care & Nursing

Advanced Practices in Nursing	-
Community & Public Health Nursing	-
Nursing & Care	2167-1168
Nursing & Clinical Research	-
Patient Care	-
Perioperative & Critical Intensive Care Nursing	-
Research & Reviews: Journal of Nursing and Health Sciences	-

Pharmaceutical Sciences

Advances in Pharmacoepidemiology & Drug Safety	2167-1052
Alcoholism & Drug Dependence	2329-6488
Bioanalysis & Biomedicine	1948-593X
Biochemistry & Pharmacology: Open Access Journal	2167-0501
Bioequivalence & Bioavailability	0975-0851
Biomarkers in Drug Development	2327-4441
Biomarkers Journal	-
Biomolecular Research & Therapeutics	2167-7956
Cardiovascular Pharmacology: Open Access	2329-6607
Clinical & Experimental Pharmacology	2161-1459
Clinical Pharmacology and Biopharmaceutics	2167-065X
Current Trends in Nutraceuticals	-
Developing Drugs	2329-6631
Diagnostic Techniques & Biomedical Analysis	-
Drug Designing: Open Access	2169-0138
Drug Metabolism & Toxicology	2157-7609
in Silico & in Vitro Pharmacology	-
Molecular Enzymology and Drug Targets	-
Molecular Pharmaceutics & Organic Process Research	2329-9053
Pharmaceutica Analytica Acta	2153-2435
Pharmaceutical Care & Health Systems	2376-0419
Pharmaceutical Microbiology	-
Pharmaceutical Regulatory Affairs: Open Access	2167-7689
Pharmaceutical Sciences & Emerging Drugs	-
Pharmaceutics & Drug Delivery Research	2325-9604
Pharmacoeconomics: Open Access	-
Pharmacogenomics and Pharmacoproteomics	2153-0645
Pharmacognosy & Natural Products	-
Pharmacokinetics & Experimental Therapeutics	-
Pharmacological Reports	-
Pharmacovigilance	2329-6887
Research & Reviews: Journal of Hospital and Clinical Pharmacy	-
Research & Reviews: Journal of Pharmaceutical Analysis	2320-0812
Research & Reviews: Journal of Pharmaceutical Quality Assurance	-
Research & Reviews: Journal of Pharmaceutics and Nanotechnology	2347-7857
Research & Reviews: Journal of Pharmacognosy and Phytochemistry	2321-6182
Research & Reviews: Journal of Pharmacy and Pharmaceutical Sciences	2320-1215
Virology & Antiviral Research	2324-8955

Physics

Astrophysics & Aerospace Technology	2329-6542
Research & Reviews: Journal of Pure and Applied Physics	2320-2459
Vortex Science and Technology	2090-8369

Social & Political Sciences

Anthropology	2332-0915
Arts and Social Sciences Journal	2151-6200
Civil & Legal Sciences	2169-0170
Forensic Anthropology	-
Global Media Journal	1550-7521
Intellectual Property Rights: Open Access	2375-4516
Mass Communication & Journalism	2165-7912
Political Science & Public Affairs	2332-0761
Research & Reviews: Journal of Educational Studies	-
Research & Reviews: Journal of Social Sciences	-
Socialomics	2167-0358
Sociology & Criminology	2375-4435

Veterinary Sciences

Animal Nutrition	-
Primatology	2167-6801
Research & Reviews: Journal of Veterinary Sciences	-
Research & Reviews: Journal of Zoological Sciences	2321-6190
Veterinary Science & Medical Diagnosis	2325-9590
Veterinary Science & Technology	2157-7579

Impact Factors* (IF)

Journal Name	Pubmed Short Name	Impact Factor
Biological Systems: Open Access	Biol Syst Open Access	0.76
Journal of Biotechnology & Biomaterials	J Biotechnol Biomater	1.94
Journal of Psychology & Psychotherapy	J Psychol Psychother	1.3
Advanced Techniques in Biology & Medicine	Adv Tech Biol Med	1.08
AIDS & Clinical Research	J AIDS Clin Res	2.7
Autism Open Access	Autism Open Access	3.52
Biochemistry & Physiology: Open Access	Biochem Physiol	1.03
Diversity Equality in Health & Care	Divers Equal Health Care	2.49
Drug Designing: Open Access	Drug Des	6
Fungal Genomics & Biology	Fungal Genom Biol	1.15
International Journal of Genomic Medicine	Int J Genomic Med	0.67
Journal of Addiction Research & Therapy	J Addict Res Ther	2.86
Journal of Alzheimers Disease & Parkinsonism	J Alzheimers Dis Parkinsonism	1.18
Journal of Fertilization: In Vitro	JFIV Reprod Med Genet	1
Journal of Genetic Syndromes & Gene therapy	J Genet Syndr Gene Ther	2.34
Journal of Microbial & Biochemical Technology	J Microb Biochem Technol	2.5
Journal of Nursing & Care	J Nurs Care	1.6
Journal of Osteoporosis and Physical Activity	J Osteopor Phys Act	0.66
Journal of Yoga & Physical Therapy	J Yoga Phys Ther	1.17
Molecular Biology	Mol Biol	1.85
Neurology & Neurophysiology	J Neurol Neurophysiol	0.77
Primary health care	Prim Health Care	1
Quality in Primary Care	Qual Prim Care	3.88
Tissue Science & Engineering	J Tissue Sci Eng	2.72
Biochemistry & Analytical Biochemistry	Biochem Anal Biochem	2.6
Molecular and Genetic Medicine	J Mol Genet Med	2.89
Advancements in Genetic Engineering	Adv Genet Eng	1
Enzyme Engineering	Enz Eng	2.3
Depression and Anxiety	J Depress Anxiety	1
Human Genetics & Embryology	Human Genet Embryol	1.2
Current Synthetic and Systems Biology	Curr Synthetic Sys Biol	0.8
Hereditary Genetics: Current Research	Hereditary Genet	1.2
International Journal of Emergency Mental Health and Human Resilience	Int J Emerg Ment Health	6.5
Spine	J Spine	1.9
Cloning & Transgenesis	Clon Transgen	1.5
Journal of Medical Microbiology & Diagnosis	J Med Microb Diagn	1.9
Biosensors Journal	Biosens J	0.33
Defense Management	J Def Manag	0.5
Review of Public Administration and Management	Review Pub Administration Manag	0.2
Single cell biology	Single Cell Biol	1
Gerontology & Geriatric Research	J Gerontol Geriatr Res	1
Neuroinfectious Diseases	J Neuroinfect Dis	2.4
Cell Science & Therapy	J Cell Sci Ther	1.37
Molecular Biomarkers & Diagnosis	J Mol Biomark Diagn	2.1
Brain Disorders & Therapy	Brain Disord Ther	1.6
Clinical Case Reports	J Clin Case Rep	1.2
Gene Technology	Gene Technol	0.83
Socialomics	J Socialomics	2.3
Journal of Trauma and Treatment	J Trauma Treat	0.6
Translational Biomedicine	Transl Biomed	1.06
Journal of Neurology and Neuroscience	J Neurol Neurosci	0.88
Research & Reviews: Journal of Botanical Sciences	J Bot Sci	0.33
Journal of Psychiatry	J Psychiatry	2.32
Anaplastology	Anaplastology	0.73
Tropical Medicine & Surgery	Trop Med Surg	0.4
Orthopedic & Muscular System: Current Research	Orthop Muscular Syst	0.32
Pediatrics & Therapeutics	Pediat Therapeut	1.32
Sports Medicine & Doping Studies	J Sports Med Doping Stud	1.45
Journal of Oral Hygiene & Health	J Oral Hyg Health	0.52
Emergency Medicine	Emerg Med (Los Angel)	0.875
Journal of Transplantation Technologies & Research	J Transplant Technol Res	1.39
Journal of Hypertension: Open Access	J Hypertens (Los Angel)	0.92
International Journal of Waste Resources	Int J Waste Resour	1.95
Surgery: Current research	Surgery Curr Re	0.587
Oral Health and Dental Management	Oral Health Dent Manag	1.23
International Journal of Advancement technology	Int J Adv Tech	5.08
Translational Medicine	Transl Med (Sunnyvale)	1.312
Air and Water Borne Diseases	Air Water Borne Diseases	0.6
Journal of Coastal Zone Management	J Coast Zone Manag	0.54
Biology and Medicine	Biol Med (Aligarh)	3.07
Journal of Bioterrorism and Biodefense	J Bioterror Biodef	0.38
Journal of Tropical Diseases & Public Health	J Trop Dis	0.83
Journal of Surgery	Journal of Surgery [Jurnalul de chirurgie]	0.08
Nephrology & Therapeutics	J Nephrol Ther	0.318
Journal of Fundamentals of Renewable Energy and Applications	J Fundam Renewable Energy Appl	1.41
Advances in Pharmacoepidemiology & Drug Safety	Adv Pharmacoepidemiol Drug Saf	1.37
Bioanalysis & Biomedicine	J Bioanal Biomed	1.67
Biochemistry & Pharmacology: Open Access	Biochem Pharmacol (Los Angel)	2.09
Bioequivalence & Bioavailability	J Bioequiv Availab	1.88
Biomolecular Research & Therapeutics	J Biomol Res Ther	1.67
Cardiovascular Pharmacology: Open Access	Cardiol Pharmacol	1.77
Clinical & Experimental Pharmacology	Clin Exp Pharmacol	1.83
Clinical Pharmacology & Biopharmaceutics	Clin Pharmacol Biopharm	1.69
Data Mining in Genomics & Proteomics	J Data Mining Genomics Proteomics	2
Drug Metabolism & Toxicology	J Drug Metab Toxicol	1.37
Ergonomics	J Ergonomics	1.38
Glycomics & Lipidomics	J Glycomics Lipidomics	1.82
Health & Medical Informatics	J Health Med Inform	1.98
Metabolomics: Open Access	Metabolomics (Los Angel)	3.03
Nanomedicine & Biotherapeutic Discovery	J Nanomedine Biotherapeutic Discov	2.69
OMICS Journal of Radiology	OMICS J Radiol	0.54
Pharmaceutica Analytica Acta	Pharm Anal Acta	1.83
Pharmaceutical Regulatory Affairs: Open Access	Pharm Regul Aff	1.88
Pharmacogenomics & Pharmacoproteomics	J Pharmacogenomics Pharmacoproteomics	1.69
Pharmacovigilance	J Pharmacovigil	2.65
Phylogenetics & Evolutionary Biology	J Phylogenetics Evol Biol	2.76
Proteomics & Bioinformatics	J Proteomics Bioinform	2.55
Advances in Automobile Engineering	Adv Automob Eng	1.750
Advances in Robotics & Automation	Adv Robot Autom	0.813
Arts and Social Sciences Journal	Arts Social Sci J	1.231
Bioceramics Developments and Applications	Bioceram Dev Appl	0.958
Business & Financial Affairs	J Bus & Fin Aff	2.000
Generalized Lie Theory and Applications	J Generalized Lie Theory Appl	1.750
Irrigation & Drainage Systems Engineering	Irrigat Drainage Sys Eng	4.286
Industrial Engineering & Management	Ind Eng Manage	0.474
Aeronautics & Aerospace Engineering	J Aeronaut Aerospace Eng	1.407
Applied & Computational Mathematics	J Appl Computat Math	0.581
Architectural Engineering Technology	J Archit Eng Tech	1.071
Accounting & Marketing	J Account Mark	0.500
Aquaculture Research & Development	J Aquac Res Development	1.272
Bioengineering & Biomedical Science	J Bioeng Biomed Sci	1.235
Biometrics & Biostatistics	J Biomet Biostat	1.272
Biosensors & Bioelectronics	J Biosens Bioelectron	2.137
Civil & Environmental Engineering	J Civil Environ Eng	1.294
Cytology & Histology	J Cytol Histol	0.569
Civil & Legal Sciences	J Civil Legal Sci	0.286
Ecosystem & Ecography	J Ecosyst Ecogr	1.806
Electrical & Electronic Systems	J Elec Electron Syst	0.533
Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091

Earth Science & Climatic Change	J Earth Sci Clim Change	2.082
Geography & Natural Disasters	J Geogr Nat Disast	0.800
Hotel & Business Management	J Hotel Bus Manage	1.600
Information Technology & Software Engineering	J Inform Tech Soft Engg	2.789
Molecular Imaging & Dynamics	J Mol Imaging Dynam	2.091
Petroleum & Environmental Engineering	J Pet Environ Biotechnol	2.839
Stock & Forex Trading	J Stock Forex Trad	0.300
Textile Science & Engineering	J Textile Sci Eng	0.667
Tourism & Hospitality	J Tourism Hospit	1.190
Telecommunications System & Management	J Telecommun Syst Manage	0.800
Physical Mathematics	J Phys Math	4.500
Nanomedicine & Nanotechnology	J Nanomed Nanotechnol	4.68
Arabian Journal of Business and Management Review	Arab J Bus Manage Rev	1.42
Research and Reviews: Journal of Engineering and Technology	Engineering and Technology	0.14
Journal of Material Sciences & Engineering	J Material Sci Eng	1.31
Journal of Mass Communication & Journalism	J Mass Communicat Journalism	0.62
Journal of Powder Metallurgy & Mining	J Powder Metall Min	0.71
Journal of Applied Mechanical Engineering	J Appl Mech Eng	1.65
Archives of Clinical Microbiology		0.35
Dentistry	Dentistry	1.22
Journal of Diabetes & Metabolism	J Diabetes Metab	1.77
Otolaryngology: Current Research	Otolaryngol (Sunnyvale)	0.22
Journal of Metabolic Syndrome	J Metabolic Synd	1.27
Journal of Primatology	J Primatol	0.53
Journal of Thyroid Disorders & Therapy	Thyroid Disorders Ther	0.43
Jounal of Novel Physiotherapies	J Nov Physiother	1.24
Journal of Stem Cell Research & Therapy	J Stem Cell Res Ther	2.78
Anatomy & Physiology: Current Research	Anat Physiol	1
Pancreatic Disorders & Therapy	Pancreat Disord Ther	0.54
Journal of Cancer Science & Therapy	J Cancer Sci Ther	4.203
Journal of Biomedical Sciences		0.2
Journal of Nutritional Disorders & Therapy	J Nutr Disord Ther	1.46
Medical & Surgical Urology	Med Surg Urol	0.3
Journal of Biochips & Tissue Chips	J Biochip Tissue Chip	1.7
Journal of Liver	J Liver	0.08
Journal of Family Medicine and Medical Research	Fam Med Med Sci Res	0.78
Gynecology & Obstetrics	Gynecol Obstet (Sunnyvale)	0.52
Journal of Integrative Oncology	J Integr Oncol	1.67
Journal of Neonatal Biology	J Neonatal Biol	0.55
Journal of Glycobiology	J Glycobiology	0.8
Journal of Blood & Lymph	J Blood Lymph	0.12
Journal of Arthritis	J Arthritis	1.87
Journal of Membrane Science & Technology	J Membra Sci Technol	1.18
Medicinal Chemistry	Med Chem (Los Angeles)	2.64
Journal of Physical Chemistry & Biophysics	J Phys Chem Biophys	0.75
Organic Chemistry: Current Research	Organic Chem Curr Res	1.94
Journal of Bioprocessing & Biotechniques	J Bioprocess Biotech	1.74
Journal of Environmental & Analytical Toxicology	J Environ Anal Toxicol	2.58
Journal of Chemical Engineering & Process Technology	J Chem Eng Process Technol	1.21
Journal of Computer Science & Systems Biology	J Comput Sci Syst Biol	1.62
Journal of Analytical & Bioanalytical Techniques	J Anal Bioanal Tech	2.16
Journal of Plant Biochemistry & Physiology	J Plant Biochem Physiol	2.28
Journal of Chromatography & Separation Techniques	J Chromatogr Sep Tech	1.78
Journal of Thermodynamics & Catalysis		0.91
Community Medicine & Health Education	J Community Med Health Educ	1.27
Epidemiology: Open Access	Epidemiology (Sunnyvale)	1.35
Obesity & Weight Loss Therapy	J Obes Weight Loss Ther	0.94
Pain & Relief	J Pain Relief	1.14
Palliative Care & Medicine	J Palliat Care Med	0.88
Steroids & Hormonal Science	J Steroids Horm Sci	0.65
Gastrointestinal & Digestive System	J Gastrointest Dig Syst	0.43
Hair: Therapy & Transplantation		0.6
Andrology	Andrology (Los Angel)	1.16
Endocrinology & Metabolic Syndrome	Endocrinol Metab Syndr	1.12
Internal Medicine		2.48
Sleep Disorders & Therapy	J Sleep Disord Ther	0.5
Nuclear Medicine & Radiation Therapy	J Nucl Med Radiat Ther	0.88
Alternative & Integrative Medicine	Altern Integr Med	1.11
Pulmonary & Respiratory Medicine	J Pulm Respir Med	1.01
Occupational Medicine Health Affairs	Occup Med Health Aff	0.85
Reproductive System & Sexual Disorders	Reprod Syst Sex Disord	1.25
Medical Diagnostic Methods		0.29
Blood Disorders & Transfusion	J Blood Disord Transfus	0.5
General Medicine	Gen Med (Los Angel)	0.86
Bioenergetics: Open Access	Bioenergetics	3.1
Chemotherapy: Open Access	Chemotherapy (Los Angel)	1.8
Clinical & Experimental Pathology	J Clin Exp Pathol	1.54
Carcinogenesis & Mutagenesis	J Carcinog Mutagen	1.9
Clinical Research & Bioethics	J Clinic Res Bioeth	0.95
Vaccines & Vaccination	J Vaccines Vaccin	1.8
Immunome Research	Immunome Res	7.1
Clinical & Experimental Ophthalmology	J Clin Exp Ophthalmol	1.11
Clinical & Experimental Dermotology Research	J Clin Exp Dermatol Res	0.5
Clinical & Experimental Cardiology	J Clin Exp Cardiolog	1.33
Clinical Microbiology: Open Access	Clin Microbiol	0.7
Anesthesia & Clinical research	J Anesth Clin Res	0.7
Mycobacterial Diseases	Mycobact Dis	0.9
Clinical Toxicology	J Clin Toxicol	1.39
Clinical Trials & Research	J Clin Trials	1.33
Antivirals & Antiretrovirals	J Antivir Antiretrovir	1.27
Fermentation Technology	Ferment Technol	3.44
Clinical & Cellular immunology	J Clin Cell Immunol	2.019
Allergy & Therapy	J Allergy Ther	0.762
Bacteriology & Parasitology	J Bacteriol Parasitol	2.025
Rheumatology: Current Research	Rheumatology (Sunnyvale)	1.522
Virology & Mycology	Virol Mycol	0.69
Clinics in Mother and Child Health	Clinics Mother Child Health	0.432
Womens Health Care	J Womens Health Care	0.79
Marine Science: Research & Development	J Marine Sci Res Dev	0.45
Plant Pathology & Microbiology	J Plant Pathol Microbiol	1.75
Geology & Geophysics	J Geol Geophys	0.91
FisheriesSciences	J Fisheries Sci	0.51
Fisheries and Aquaculture Journal	Fish Aquac J	0.69
Bioremediation & Biodegradation	J Bioremediat Biodegrad	2.1
Advances in Crop Science and Technology	Adv Crop Sci Tech	0.39
Journal of Remote Sensing & GIS	J Geophys Remote Sens	0.77
Biofertilizers & Biopesticides	J Biofertil Biopestic.	1.19
Hydrology: Current Research	Hydrol Current Res	1.12
Probiotics & Health	J Prob Health	0.69
Veterinary Science & Technology	J Veterinar Sci Technolo	2.5
Medicinal & Aromatic Plants	Med Aromat Plants	2.02
Forest Research	Forest Res	1.69
International Journal of Sensor Networks and Data Communications	Sensor Netw Data Commun	1.66
Innovative Energy Policies	Innov Energ Policies	0.88
Biodiversity & Endangered Species	J Biodivers Endanger Species	0.25
Biosafety	Biosafety	0.49
Agrotechnology	Agrotechnol	0.69
Journal of Traditional Medicine and Clinical Naturopathy	J Tradition Med Clin Naturopth	0.49
Nutrition & Food Sciences	J Nutr Food Sci	1.14
Entomology, Ornithology & Herpetology	Entomol Ornithol Herpetol	1.26

Impact Factor Calculation:

Impact Factor was established by dividing the number of articles published in 2012 and 2013 with the number of times they are cited in 2014 based on Google search and the Scholar Citation Index database. If 'X' is the total number of articles published in 2012 and 2013, and 'Y' is the number of times these articles were cited in indexed journals during 2014 than, impact factor = Y/X

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10th Global Food Processing Summit and Expo
Aug 29-31, 2016 Sao Paulo, Brazil

Global Food Security and Sustainability Conference
Sep 5-7, 2016 Beijing, China

11th Global Summit on
Food & Beverages
Sep 22-24, 2016 Las Vegas, USA

Agriculture Industry and Machinary Congress
Sep 26-27, 2016 Orlando, USA

Animal Health and Veterinary Medicine Congress
Sept 26-28, 2016 Valencia, Spain

3rd International Conference on
Aquaculture & Fisheries
Sept 29-Oct 1, 2016 London, UK

2nd Global Summit on
Plant Science
Oct 6-8, 2016 London, UK

Global Food Manufacturing Conference
Oct 13-15, 2016 Kuala Lumpur, Malaysia

6th International Conference on
Agriculture & Horticulture
Oct 17-19, 2016 Kuala Lumpur, Malaysia

European Food Safety and Standards Conference
Oct 24-26, 2016 Valencia, Spain

12th International Conference and Exhibition on
Food Processing & Technology
Nov 7-9, 2016 Istanbul, Turkey

Food Engineering Conference
Nov 24-26, 2016 Melbourne, Australia

International Conference on
Aquaculture and Fisharies Industry
Nov 28-30, 2016 San Antonio, USA

International Food Safety, Quality and Policy Conference Dec 5-6, 2016 Dubai, UAE

5th Global Food Safety Conference
Dec 5-7, 2016 San Antonio, USA

Alternative Heathcare

5th International Conference and Exhibition on
Traditional and Alternative Medicine
Sep 5-7, 2016 Beijing, China

6th International Conference and Exhibition on
Traditional & Alternative Medicine
Sep 14-16, 2016 Amsterdam, Netherlands

2nd International Summit on
Herbals
Oct 17-19, 2016 Kuala Lumpur, Malaysia

Biochemistry

International Conference on **Nucleic Acids**
Aug 4-5, 2016 New Orleans, USA

6th International Conference on
Bioinformatics
Aug 22-23, 2016 Philadelphia, USA

5th International Conference on
Computational Systems Biology
Aug 22-23, 2016 Philadelphia, USA

International Conference on
Structural Biology
Aug 22-23, 2016 New Orleans, USA

2nd Glycobiology World Congress
Aug 29-31, 2016 Atlanta, USA

2nd International Conference on
Transcriptomics
Sep 12-14, 2016 Philadelphia USA

International Conference on
Lipid Science & Technology
Oct 3-5, 2016 Orlando, USA

International Conference on
Biochemistry
Oct 10-12, 2016 Kuala Lumpur, Malaysia

7th International Conference on
Bioinformatics
Oct 24-25, 2016 Rome, Italy

7th International Conference and Expo on
Proteomics
Oct 24-26, 2016 Rome, Italy

2nd International Conference on
Genetic and Protein Engineering
Nov 14-16, 2016 Atlanta, USA

International Conference on
Next Generation Sequencing
Nov 17-18, 2016 Atlanta, USA

6th International Conference and Exhibition on
Metabolomics
Nov 28-30, 2016 Orlando, USA

International Conference on
Glycomics
Dec 1-2, 2016 Atlanta, USA

World Congress on
Amino Acids and Proteins
Dec 8-9, 2016 Dallas, USA

Cardiology

7th World Cardiothoracic Meeting
December 08-09, 2016 Philadelphia, USA

International Conference on
Cardio Vascular Medicine
Aug 1-2, 2016 Manchester, UK

12th World Cardiology Congress
Aug 1-3, 2016 Manchester, UK

International Conference on
Hypertension & Treatment
Aug 11-12, 2016 Toronto, Canada

9th International Conference on
Molecular & Cellular Cardiology
Aug 22-23, 2016 Sao Paulo, Brazil

11th International Cardiac Conference
Sep 11-13, 2016 Philadelphia, USA

10th Interventional Cardiology Congress
Oct 17-18, 2016 Rome, Italy

Ischemic Heart Diseases Conference
Oct 20-21, 2016 Chicago, USA

13th European Cardiology Congress
Oct 24-26, 2016 Valencia, Spain

Annual Conference on
Cardiovascular Imaging
Oct 31-Nov 1, 2016 Istanbul, Turkey

6th International Conference on
Clinical & Experimental Cardiology
Dec 1-3, 2016 Orlando, USA

International Conference on
Angiology
Dec 8-9, 2016 San Antonio, USA

Chemical Engineering

2nd World Congress on **Biopolymers**
Aug 4-5, 2016 Manchester, UK

Global Summit and Expo on **Biomass**
Aug 8-9, 2016 Birmingham, UK

International Conference on
Petroleum Engineering
Aug 15-17, 2016 London, UK

2nd International Congress and Expo on
Biofuels & Bioenergy
Aug 29-31, 2016 Sao Paulo, Brazil

3rd International Conference and Exhibition on
Biopolymers and Bioplastics
Sep 12-14, 2016 San Antonio, USA

International Conference on
Chemical Engineering
Sep 12-14, 2016 Phoenix, USA

4th International Conference on
Bioprocess and Biosystems Engineering
Oct 20-21, 2016 Houston, USA

International Conference on
Sustainable Bioplastics
Nov 10-11, 2016 Alicante, Spain

2nd Global Summit and Expo on
Biomass Dec 5-6, 2016 Dubai, UAE

4th World Congress on
Petrochemistry and Chemical Engineering
Dec 5-7, 2016 Phoenix, USA

World Biodiesel Congress & Expo
Dec 5-7, 2016 San Antonio, USA

Chemistry

World Chemistry Conference
Aug 8-10, 2016 Toronto, Canada

International Conference on
Organic Chemistry
Aug 10-11, 2016 Las Vegas, USA

International Conference on
Stereochemistry
Aug 18-19, 2016 Sao Paulo, Brazil

International Chemistry on
Pharmaceutical Chemistry
Sep 5-7, 2016 Frankfurt, Germany

International Conference on
Histochemistry and Cytochemistry
Sep 14-15, 2016 Phoenix, USA

3rd International Conference on
Past and Present Research Systems of Green Chemistry Sep 19-21, 2016 Las Vegas, USA

World Congress on **Chromatography**
Sep 21-23, 2016 Amsterdam, Netherlands

7th International Conference and Exhibition on
Analytical & Bioanalytical Techniques
Sep 28-30, 2016 Orlando, USA

International Conference on
Applied Chemistry
Oct 17-18, 2016 Houston, USA

International Confernece on
Clinical Chemistry and Laboratory Medicine
Oct 17-19, 2016 Chicago, USA

International Conference on
Nuclear Chemistry
Oct 17-18, 2016 Rome, Italy

International Conference and Exhibition on
Polymer Chemistry
Nov 14-16, 2016 Atlanta, USA

5th International Conference on
Medicinal Chemistry & Computer Aided Drug Designing Dec 5-7, 2016 Phoenix, USA

Dentistry

12th International Conference on
Dental Medicine
Aug 8-10, 2016 Toronto, Canada

13th International Conference on **Dental Health**
Aug 15-17, 2016 Sao Paulo, Brazil

14th European Dental Event and Expo
Sept 15-16, 2016 Berlin, Germany

International Conference on
Restorative Dentistry and Prosthodontics
Oct 20-21, 2016 Houston USA

16th Euro Congress on
Dental & Oral Health
Oct 24-26, 2016 Rome, Italy

International Conference on
Oral and Maxillofacial Surgery
Oct 31-Nov 1, 2016 Istanbul, Turkey

17th Asia-Pacific Dental and Oral Care Congress
Nov 21-23, 2016 Melbourne, Australia

World Dental Hygienists Meeting
Dec 1-2, 2016 San Antonio, USA

18th American Dental Congress
Dec 8-10, 2016 Phoenix, USA

Dermatology

8th Clinical Dermatology Congress
Aug 24-26, 2016 Sao Paulo, Brazil

12th International Conference and Exhibition on
Cosmetic Dermatology and Haircare
Sep 14-16, 2016 Phoenix, USA

International Conference on
Skin Diseases and Treatment
Oct 3-4, 2016 Vancouver, Canada

9th World Dermatology & Venereology Congress
Oct 10-12, 2016 Manchester, UK

11th Global Dermatologists AnnualMeeting
Nov 14-16, 2016 Dubai, UAE

10th Asia-Pacific Dermatology Conference
Nov 24-26, 2016 Melbourne, Australia

International Conference on
Psoriasis
Dec 8-9, 2016 Dallas, USA

Diabetes and Endocrinology

11th Global Diabetes Conference & Medicare Expo Aug 8-10, 2016 Birmingham, UK

Meet Inspiring Speakers and Experts at our 3000+ Global Events Every year on Medical, Pharma, Engineering, Science, Technology, Business and 40 Varient fields

5th International Conference on
Clinical Endocrinology and Metabolism
Aug 22-24, 2016 Sao Paulo, Brazil

International Conference on
Alternative Ayurvedic and Herbal Medicine for Diabetes
Sep 5-7, 2016 Beijing, China

12th European Diabetes Congress
Sept 15-17, 2016 Berlin, Germany

12th Diabetes Meeting and Therapeutics Expo
Sep 29-Oct 1, 2016 Toronto Canada

14th International Conference and Exhibition on
Targeting Diabetes and Novel Therapeutics
Oct 17-19, 2016 Kuala Lumpur, Malaysia

International Conference on
Metabolic Syndromes
Oct 17-18, 2016 Rome, Italy

15th Global Diabetes Summit and Medicare Expo
Nov 14-16, 2016 Dubai, UAE

15th Indo Global Diabetes Summit and Medicare Expo
November21-23, 2016 Hyderabad, India

6th International Conference on
Endocrinology
Dec 5-7, 2016 Dallas, USA

EEE & Engineering

2nd Global Summit on
Electronics and Electrical Engineering
Aug 8-9, 2016 Las Vegas, USA

3rd Biomedical Engineering Conference and Expo
Aug 22-23, 2016 Vienna, Austria

2nd World Congress and Exhibition on
Construction and Steel Structure
Sep 22-24, 2016 Las Vegas, USA

5th International Conference and Exhibition on
Biosensors & Bioelectronics
Sep 22-24, 2016 Phoenix, USA

3rd International Conference on
Big Data Analysis and Data Mining
Sept 26-27, 2016 London, UK

4th International Conference and Exhibition on
Mechanical & Aerospace Engineering
Oct 3-4, 2016 Orlando, USA

5th International Conference and Exhibition on
Biometrics & Biostatistics
Oct 20-21, 2016 Houston, USA

3rd International Conference and Exhibition on
Industrial Engineering
Nov 2-3, 2015 Istanbul, Turkey

3rd International Conference on
Computer Graphics and Animation
Nov 7-9, 2016 Las Vegas, USA

International Conference on
Power and Energy Engineering
Nov 10-11, 2016 Istanbul, Turkey

Environmental Sciences

3rd World Congress and Expo on **Recycling**
Oct 3-5, 2016 Atlanta, USA

2nd International Conference on
Green Energy & Expo
Nov 28-30, 2016 Atlanta, USA

Expo Dental

Dental Health Expo
Aug 15-17, 2016 Sao Paulo, Brazil

American Dental and Oral Health Expo
Dec 8-10, 2016 Phoenix, USA

Expo Food

Food Eqipment Expo
Aug 29-30, 2016 Sao Paulo, Brazil

Food Pack Expo
Sep 22-23, 2016 Las Vegas, USA

Global Food Expo
Nov 7-9, 2016 Istanbul, Turkey

Expo Medical Devices

Medical Devices
Aug 24-25, 2016 New Orleans, USA

Medicaldevices Expo MiddleEast 2016
Oct 10-12, 2015 Dubai, UAE

Expo Pharma

Pharma Expo USA
Aug 22-24, 2016 New Orleans, USA

Pharma Middle East Expo
Oct 10-12, 2015 Dubai, UAE

Gastroenterology

7th Global Gastroenterologists Annual Meeting
Aug 11-12, 2016 Birmingham, UK

6th Gastroenterology and Gastroenterologists Annual Meeting
Sep 12-14, 2016 Atlanta, USA

International Conference on
Clinical Gastroenterology & Hepatology
Sep 29-Oct 1, 2016 Toronto Canada

International Conference on
Digestive Diseases
Oct 13-15, 2016 Manchester, UK

International Conference on
Pancreatic Disorders and Treatment
Oct 17-19, 2016 Chicago, USA

European Gatroenterology Conference
Oct 24-25, 2016 Valencia, Spain

International Conference on
Endoscopy
Nov 17-18, 2016 Atlanta, USA

Genetics and Molecular Biology

5th International Conference on
Cancer Genomics Aug 8-9, 2016 Las Vegas, USA

International Conference on
Integrative Medicine and Nutrition
Aug 11-12, 2016 Las Vegas, USA

International Conference on
Genetics Counseling and Genomics Medicine
Aug 11-12, 2016 Birmingham, UK

Biotechnology World Convention
Aug 15-17, 2016 Sao Paulo, Brazil

2nd International Conference on
Synthetic Biology
Aug 18-19, 2016 London, UK

Annual Conference on
Bio Science
Sept 12-13, 2016 Berlin, Germany

5th International Conference on
Tissue Science and Regenerative Medicine
Sept 12-14, 2016 Berlin, Germany

4th International Conference on
Genomics & Pharmacogenomics
Sept 12-14, 2016 Berlin, Germany

2nd World Bio Summit & Expo
Oct 10-12, 2015 Dubai, UAE

International Conference on
Molecular Biology
Oct 10-12, 2015 Dubai, UAE

World Congress on **Human Genetics**
Oct 31 - Nov 1, 2016 Barcelona, Spain

11th Euro Biotechnology Congress
Nov 7-9, 2016 Alicante, Spain

12th Biotechnology Congress
Nov 28-30, 2016 San Francisco, USA

International Conference on
Clinical and Molecular Genetics
Dec 1-2, 2016 Atlanta, USA

International Conference on
Histocompatability and Immunogenetics
Dec 1-2, 2016 San Antonio, USA

Geology and Earth Science

World Congress on
GIS & Remote Sensing
Aug 1-3, 2016 New Orleans, USA

International Conference on
Geophysics
Sep 29-30, 2016 Toronto Canada

International Conference on
Geosciences
Oct 6-7, 2016 Orlando, USA

World Conference on
Climate Change
Oct 24-26, 2016 Valencia, Spain

2nd International Conference & Expo on
Oil and Gas
Nov 2-3, 2016 Istanbul, Turkey

5th International Conference on
Petrolium Geology and Petrolium Industry
Nov 24-25, 2016 Dubai, UAE

Healthcare Management

Global Summit on
Healthcare & Fitness Summit
Aug 22-24, 2016 Philadelphia, USA

2nd Global Summit on
Telemedicine & eHealth
Aug 24-25, 2016 New Orleans USA

International Conference on **Wound care**
Sep 12-13, 2016 San Antonio, USA

World Congrees on
Health & Medical Sociology
Sep 19-20, 2016 Las Vegas, USA

2nd Annual Congress & Medicare Expo on
Primary Healthcare
Sep 19-21, 2016 Phoenix, USA

International Conference on
Men's Health
Sep 26-27, 2016 Toronto Canada

7th Euro Health Care and Fitness Summit
Sept 26-28, 2016 London, UK

4th International Conference on
Epidemiology & Public Health
Oct 3-5, 2016 London, UK

4th International Conference on
Clinical and Medical Informatics
Oct 6-8, 2016 London, UK

International Conference on
Environmental Health & Safety
Oct 24-26, 2016 Valencia, Spain

International Conference and Exhibition on
Medical Writing and Healthcare Communications
Nov 17-18, 2016 Dubai, UAE

8th Global Summit and Expo on **Healthcare**
Nov 17-19, 2016 Dubai, UAE

4th International Conference on
Weight Loss and Fitness Expo
Dec 5-6, 2016 Dubai, UAE

International Conference on **Precision Medicine**
Dec 5-7, 2016 San Antonio, USA

Hematology

5th World Congress on
Hemophilia and Blood Disorders
Aug 18-19, 2016 London, UK

6th International Conference on
Hematology & Lymph
Oct 3-5, 2016 Orlando USA

Immunology

2nd International Conference on
Parasitology
Aug 1-3, 2015 Manchester, UK

International Conference on
Allergy , Asthama & Clinical Immunology
Sep 14-15, 2017 Amsterdam, Netherlands

International Conference on
Autoimmunity
Oct 13-14, 2016 Manchester, UK

5th International Conference and Exhibition on
Immunology
Oct 24-26, 2016 Chicago, USA

International Conference on
Lupus
Dec 8-9, 2016 Phoenix USA

Infectious Diseases

2nd World Congress on
Infectious Diseases
Aug 24-26, 2016 Philadelphia, USA

World Conference on
Infection Prevention and Control
Sep 5-6, 2016 Frankfurt, Germany

European Infectious Diseases Conference
Sep 5-7, 2016 Frankfurt, Germany

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2nd International Conference on
Influenza
Sept 12-13, 2016 Berlin, Germany

4th International Conference on
HIV/AIDS, STDS and STIS
Oct 3-5, 2016 Orlando, USA

3rd World Congress on
Hepatitis and Liver Diseases
Oct 10-12, 2015 Dubai, UAE

Annul Conference on
Rare Diseases and Orphan Drugs
Oct 26-27, 2016 Chicago, USA

2nd International Conference on
Flu
Oct 31-Nov 2, 2016 San Francisco, USA

Massmedia

2nd Global Summit and Expo on
Multimedia & Applications
Aug 15-16, 2016 London, UK

Materials Science

International Conference on
Polymer Science and Engineering
Aug 22-24, 2016 New Orleans, USA

6th International Conference and Exhibition on
Materials Science & Engineering
Sep 12-14, 2016 Atlanta, USA

International Conference on
Applied Crystallography
Oct 17-19, 2016 Houston, USA

Microbiology

International Conference on
Food Microbiology
Aug 8-10, 2016 Birmingham, UK

5th Global Microbiologists Annual Meeting
Aug 15-17, 2016 Portland, Oregon, USA

Environmental Microbiology Conference
Aug 24-26, 2016 Sao Paulo Brazil

International Conference on
Mycology
Sep 12-13, 2016 San Antonio, USA

7th World Congress and Expo on
Applied Microbiology
Sep 19-21, 2016 Las Vegas, USA

2nd World Congress on
Beneficial Microbes: Food, Pharma, Aqua & Beverages Industries
Sep 22-24, 2016 Phoenix, USA

International Conference on
Microbial Physiology and Genomics
Sept 29-Oct 1, 2016 London, UK

International Conference on
Infectious Diseases & Diagnostic Microbiology
Oct 3-5, 2016 Vancouver, Canada

International Conference on
Medical Parasitology
Oct 17-19, 2016 Houston, USA

International Conference and Expo on
Industrial Microbiology
Oct 17-18, 2016 Kuala Lumpur, Malaysia

6th International Conference on
Clinical Microbiology and Microbial Genomics
Oct 20-22, 2016 Rome, Italy

International Conference on
Human Papillomavirus
Oct 20-21, 2016 Chicago, USA

Annual Conference on
Applied Microbiology
Nov 10-12, 2016 Istanbul, Turkey

5th World Congress on
Virology
Nov 28-30, 2016 San Antonio, USA

Global Medical Microbiology Summit & Expo
Nov 28-30, 2016 San Francisco, USA

Nanotechnology

11th Inernational Conference and Expo on
Nanoscience & Molecular Nanotechnology
Sept 26-28, 2016 London, UK

12th Nanotechnology Products Expo
Nov 24-26, 2016 Melbourne, Australia

13th International Conference on
Nanotek & Expo
Dec 5-7, 2016 Phoenix, USA

Nephrology

9th World Nephrology Congress
Aug 15-17, 2016 Sao Paulo, Brazil

International Conference on **Kindly Transplantation**
Sep 29-30, 2016 Orlando, USA

10th International Conference on
Nephrology & Therapeutics
Sep 29-Oct 1, 2016 Orlando, USA

8th International Conference on
Pediatrics & Child Health
Oct 24-26, 2016 Chicago, USA

7th European Nephrology Conference
Nov 7-9, 2016 Alicante, Spain

Neuroscience

International conference on
Bipolar Disorders
Aug 22-23, 2016 Sao Paulo, Brazil

International Conference on
Neuroimaging and Interventional Radiology
Aug 22-23, 2016 Vienna, Austria

2nd International Conference on **Autism**
Sep 15-16, 2016 Phoenix USA

8th European Neurology Congress
Sep 21-23, 2016 Amsterdam, Netherlands

Neuro Informatics
Sept 26-27, 2016 Valencia, Spain

5th International Conference on
Alzheimer's Disease & Dementia
Sept 29-Oct 1, 2016 London, UK

5th International Conference and Exhibition on
Addiction Research & Therapy
Oct 3-5, 2016 Atlanta, USA

2nd International Conference on
Epilepsy & Treatment
Oct 20-21, 2016 Rome, Italy

2nd International Conference on
Brain Disorders and Therapeutics
Oct 26-28, 2016 Chicago, USA

2nd Annual Experts Meeting on
Depression, Anxiety and Stress Management
Oct 31 - Nov 1, 2016 Barcelona, Spain

9th Neuroscience Conference
Nov 21-23, 2016 Melbourne, Australia

2nd International Conference on
Sleep Disorders and Medicine
Nov 28-30, 2016 Atlanta, USA

2nd CNS Treatment
Dec 5-7, 2016 Dubai, UAE

2nd International Conference on
Parkinson's Disease & Movement Disorders
Dec 5-7, 2016 Phoenix, USA

None

7th Annual Conference on
Stem Cell and Regenerative Medicine
Aug 4-5, 2016 Manchester,UK

3rd International Conference on
Social Media, SEO and Marketing Strategies
Sep 12-13, 2016 Phoenix, USA

Nursing

8th Cardiovascular Nursing & Nurse Practitioners Meeting Aug 08-10, 2016 Lasvegas, USA

9th World Nursing & Healthcare Conference
Aug 15-17, 2016 London, UK

10th Global Nursing & Healthcare Conference
Aug 18-20, 2016 Sao Paulo, Brazil

6th Global Healthcare and Fitness Summit
Aug 22-24, 2016 Philadelphia, USA

World Congress on
Midwifery and Women's Health
August 29-31, 2016 Atlanta, USA

2nd Annual Congress & Medicare Expo on
Primary Healthcare
Sept 19-21, 2016 Pheonix, USA

2nd World Congress on **Breast Cancer**
Sept 19-21, 2016 Pheonix, USA

11th Oncology Nursing & Nurse Practitioners Conference
Sept 19-21, 2016 Las Vegas, USA

12th Nursing & Healthcare Congress
Oct 3-5, 2016 Vancouver, Canada

13th International Conference on
Psychiatric-Mental health Nursing
Oct 3-5, 2016 London, UK

2nd World Congress on
Polycystic Ovarian Syndrome
October 06-08,2016 Miami,USA

3rd World Breast Cancer Summit and Women's Health
October 03-05, 2016 London, UK

14th Surgical Nursing & Nurse Education Conference
October 10-12, 2016 Kuala Lumpur, Malaysia

3rd International Conference on
Gynecology & Obstetrics
Oct 17-19, 2016 Dubai, UAE

15th Euro Nursing & Medicare Summit
Oct 17-19, 2016 Rome, Italy

16th Clinical Nursing & Nurse Education Conference Nov 7-9, 2016 Melborne, Australia

17th Critical Care nursing & Nurse Practitioners Conference Dec 5-7, 2016 Dubai, UAE

18th International Conference on
Nursing & Healthcare
Dec 5-7, 2016 Dallas, USA

Nutrition

6th International Conference and Exhibition on
Diet and Nutrition
Sep 14-16, 2016 San Antonio, USA

5th International Conference and Exhibition on
Probiotics, Functional and Baby Foods
Sep 26-28, 2016 Orlando, USA

International Conference on
Restorative Medicine
Oct 24-25, 2016 Chicago, USA

8th International Conference on
Clinical Nutrition
Nov 24-26, 2016 Dubai, UAE

7th Global Dieticians and Nutritionists Annual Meeting
Dec 5-7, 2016 Philadelphia, USA

Obesity

World Congress on
Obesity
Aug 8-10, 2016 Toronto, Canada

5th International Conference on **Childhood Obesity**
Aug 29-30, 2016 Atlanta, USA

8th Europian Obesity Specialists and Endocrinologist AnnualMeeting
Oct 10-12, 2016 Manchester, UK

9th Global Obesity Meeting
Nov 14-15, 2016 Dubai, UAE

7th International Conference and Exhibition on
Obesity and Weight Management
Dec 8-10, 2016 Dallas, USA

Oncology & Cancer

International Conference on
Cervical Cancer and Therapeutics
Aug 4-5, 2016 Manchester, UK

International Conference on
Oral, Mouth and Throat Cancer
Aug 15-17, 2016 Portland, Oregon, USA

International Conference on
Thyroid Cancer and Treatment
Aug 15-17, 2016 Toronto, Canada

2nd International Conference on
Prostate Cancer and Therapeutics
Aug 22-23, 2016 Philadelphia, USA

International Conference and Exhibition on
Surgical Oncology
Oct 3-5, 2016 Sao Paulo, Brazil

Meet Inspiring Speakers and Experts at our 3000+ Global Events Every year on Medical, Pharma, Engineering, Science, Technology, Business and 40 Varient fields

International Conference and Expo on
Molecular & Cancer Biomarkers
Sept 15-16, 2016 Berlin, Germany

International Conference on
Pancreatic & Colorectal Cancer and Therapeutics
Sep 26-27, 2016 Toronto Canada

Radiation Oncology
Sept 26-27, 2016 London, UK

13th World Cancer Conference
Sept 26-28, 2016 London, UK

11th Asia-Pacific Oncology and Oncologists Meeting
Oct 17-19, 2016 Kuala Lumpur, Malaysia

7th International Conference on
Biomarkers & Clinical Research
Oct 24-26, 2016 Philadelphia, USA

International Conference on
Mesothelioma
Oct 31 - Nov 1, 2016 Barcelona, Spain

International Conference on
Leukemia and Bonemarrow Tranplantation
Nov 2-3, 2015 Istanbul, Turkey

13th Global Oncologists Summit and Cancer Therapy Nov 21-23, 2016 Dubai, UAE

14th World Congress on **Cancer Therapy**
Dec 5-7, 2016 Philadelphia, USA

2nd International Conference on
Antimicrobial Agents and Chemotherapy
Dec 8-9, 2016 San Antonio USA

Ophthalmology

International Conference and Expo on
Cataract & Refractive Surgery
Aug 4-5, 2016 Manchester, UK

7th European Ophthalmology Congress
Sep 21-23, 2016 Amsterdam, Netherlands

2nd International Conference on
Eye and Vision
Sep 26-28, 2016 Orlando, USA

Global Ophtholomology and Glaucome Conference
Oct 13-15, 2016 Kuala Lumpur, Malaysia

International Conference & Expo on
Optometry and Vision Science
Oct 20-21, 2016 Rome, Italy

9th World Opthalmic Conference
Nov 7-9, 2016 Istanbul, Turkey

10th International Conference on
Clinical & Experimental Ophthalmology
Nov 21-23, 2016 Dubai, UAE

World Ophthalmology Conference
Nov 24-26, 2016 Melbourne, Australia

Others

4th International Conference and Exhibition on
Lung & Respiratory Care
Aug 1-2, 2016 Manchester, UK

2nd International Conferences on
Clinical Trails
Aug 22-24, 2016 Philadelphia, USA

Respiratory Therapy 2016
Sep 12-14, 2016 San Antonio, USA

2nd International Conference and Exhibition on
Tissue preservation and Bio-banking
Sep 12-13, 2016 Philadelphia USA

2nd International Conference and Expo on
Audiology and Deaf Studies
Sep 21-22, 2016 Las Vegas, USA

2nd International Conference and Exhibition on
Molecular Medicine and Diagnostics
Sep 26-28, 2016 Orlando, USA

2nd World Congress and Exhibition on
Antibiotics
Oct 13-14, 2016 Manchester, UK

2nd International Conference on
Respiratory and Pulmonary Medicine
Oct 17-19, 2016 Chicago, USA

Tinnitus
Oct 26-28, 2016 Chicago, USA

2nd International Conference on
Medical Physics and Biophysics
Nov 10-11, 2016 Istanbul, Turkey

International Conference on
General Medicine and Practice
Nov 10-11, 2016 Istanbul, Turkey

5th Global Respiratory and Pulmonologist Annual Meeting
Nov 17-18, 2016 Dubai, UAE

Traslational Medicine 2016
Nov 28-30, 2016 San Francisco, USA

Palliative care

2nd International Conference on
Hospice and Palliative Care
Aug 3-4, 2016 Toronto, Canada

International Conference on
Aging
Aug 8-9, 2016 Las Vegas, USA

4th International Conference on
Geriatrics & Gerontology
Oct 3-5, 2016 London, UK

5th Geriatric Medicine Conference
Nov 14-16, 2016 Atlanta, USA

Pathology

Experts Meeting on
Clinical and Forensic Pathology
Aug 3-4, 2016 New Orleans, USA

International Conference and Exhibition on
Cytopathology & Histopathology
Aug 10-12, 2016 Las Vegas, USA

International Conference and Exhibition on
Cytology & Histology
Aug 11-12, 2016 Birmingham, UK

International Conference on
Vitiligo
Sept 15-16, 2016 Berlin, Germany

5th International Conference on
Predictive, Preventive and Personalized Medicine & Molecular Diagnostics
Sep 22-24, 2016 Phoenix, USA

9th Global Pathology Congress
Sep 26-28, 2016 Toronto Canada

Annual Digital Pathology Conference
Oct 10-11, 2016 Manchester, UK

8th Global Pathologist AnnualMeeting
Oct 10-12, 2016 Manchester, UK

International Conference on
Internal Medicine
Oct 31-Nov 2, 2016 San Francisco, USA

International Speech-LanguagePathologyConference
Nov 17-18, 2016 Atlanta, USA

Pediatrics

International Conference on
Pediatric Nutrition
Aug 1-2, 2016 New Orleans, USA

International Conference and Exhibition on
Pediatric Oncology
Aug 11-13, 2016 Toronto, Canada

5th World Pediatric Congress
Aug 18-20, 2016 Sao Paulo, Brazil

International Conference on
Pediatric Infectious Diseases
Aug 24-25, 2016 Philadelphia, USA

International Conference on
Pediatrics Surgery
Sep 14-15, 2016 Amsterdam, Netherlands

6th European Pediatrics Conference
Sep 14-16, 2016 Amsterdam, Netherlands

International Conference on
Pediatric Endocrinology
Sep 19-21, 2016 Phoenix, USA

2nd International Conference and Exhibition on
Pediatric Cardiology
Sep 22-24, 2016 Las Vegas, USA

7th International Conference on
Neonatology and Perinatology
Sept 26-28, 2016 Valencia, Spain

International Conference on
Pediatric Neurology
Sept 26-28, 2016 Valencia, Spain

7th International Conference on
Pediatric Dermatology
Oct 10-11, 2016 Manchester, UK

Pharma Marketing and Industry

5th International Summit on
GMP, GCP & Quality Control
Aug 15-16, 2016 Toronto, Canada

7th International Conference and Exhibition on
Pharmacovigilance & Clinical Trials
Aug 22-24, 2016 Vienna, Austria

Global Pharmaceutical Industry Summit
Aug 22-24, 2016 Vienna, Austria

7th World Congress on **Bioavailability & Bioequivalence: BA/BE Studies Summit**
Aug 29-31, 2016 Atlanta, USA

Asia-Pacific Drug Formulation & Bioavailability
CongressSep 5-7, 2016 Beijing, China

2nd International Conference and Expo on
Biopharmaceutics
Sep 14-16, 2016 San Antonio, USA

2nd International Conference and Expo on
Seperation Techniques
Sept 26-28, 2016 Valencia, Spain

6th International Conference and Exhibition on
Pharmaceutical Regulatory Affairs and IPR
Sep 29-Oct 1, 2016 Orlando, USA

Asia Pacific Mass Spectrometry Congress
Oct 10-12, 2016 Kuala Lumpur, Malaysia

6th International Conference and Exhibition on
Biologics and Biosimilars
Oct 19-21, 2016 Houston, USA

International Conference and Expo on
Generic Drug Market and Contract Manufacturing
Oct 31 - Nov 2, 2016 Barcelona, Spain

2nd International Conference and Expo on
Parenterals & Injectables
Nov 7-8, 2016 Istanbul, Turkey

2nd International Conference and Expo on
Drug Discovery & Designing
Nov 7-9, 2016 Istanbul, Turkey

International Pharma Marketing
Nov 10-12, 2016 Alicante, Spain

International Pharmaceutical Methods Development and Validation Conference
Nov 24-25, 2016 Dubai, UAE

Pharmaceutical Sciences

2nd International Conference and Exhibition on
Pain Medicine
Aug 4-5, 2016 New Orleans USA

3rd World Congress on
Pharmacology
Aug 8-10, 2016 Birmingham, UK

6th Pharmacovigilanace Congress
Aug 15-17, 2016 Toronto, Canada

International Conference on
Environmental Toxicology and Ecological Risk Assessment
Aug 22-23, 2016 Sao Paulo, Brazil

7th Global Pharma Summit
Aug 22-24, 2016 New Orleans, USA

2nd International Conference on
Therapeutic Drug Monitoring and Toxicogenomics
Aug 25-26, 2016 Philadelphia, USA

4th International Conference and Exhibition on
Pharmacognosy, Phytochemistry & Natural Products
Aug 29-31, 2016 Sao Paulo, Brazil

4th Global Experts Meeting on
Neuropharmacology
Sep 14-16, 2016 San Antonio, USA

International Conference on
Pain Research & Management
Oct 3-4, 2016 Vancouver, Canada

8th Annual Pharma Middle East Congress
Oct 10-12, 2016 Dubai, UAE

5th Global Summit on
Toxicology and Applied Pharmacology
Oct 17-19, 2016 Houston, USA

6th Euro-Global Summit on
Toxicology & Applied Pharmacology
Oct 24-26, 2016 Rome, Italy

5th International Conference on
Forensic Research & Technology
Oct 31-Nov 2, 2016 San Francisco, USA

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4th International Conference on
Clinical Pharmacy
Nov 7-9, 2016 Las Vegas, USA

World Pharma Congress
Nov 7-9, 2016 Las Vegas, USA

Physical Therapy Rehabilitation

4th International Conference and Exhibition on
Physical Medicine & Rehabilitation
Aug 24-26, 2016 Philadelphia, USA

Physiotherapy Conference
Oct 13-15, 2016 Kuala Lumpur, Malaysia

Physical Therapy Rehabilitation

Global Summit and Expo on
Fluid Dynamics & Aerodynamics
Aug 15-16, 2016 London, UK

2nd International Conference and Exhibition on
Mesoscopic & Condensed Matter Physics
Oct 26-28, 2016 Chicago, USA

Annual Meeting on **Rheology**
Nov 10-11, 2016 Alicante, Spain

International Conference on
Atomic and Nuclear Physics
Nov 17-18, 2016 Atlanta, USA

5th International Conference and Exhibition on
Lasers, Optics & Photonics
Nov 28-30, 2016 Atlanta, USA

Annual Astronomy and Astrophysics Congress
Dec 8-10, 2016 Dallas USA

Psychiatry

Eating Disorders Congress
Sep 12-13, 2016 Philadelphia USA

Experts Meeting on **Forensic Psychology**
Oct 6-8, 2016 London, UK

2nd International Conference on
Adolescent Medicine & Child Psychology
Oct 6-8, 2016 London, UK

Global Clinical Psychologists AnnualMeeting
Oct 10-12, 2016 Kuala Lumpur, Malaysia

International Conference on
Psychosomatic Medicine
Nov 2-3, 2015 Istanbul, Turkey

3rd Euro Psychiatrists Meeting on
Psychiatry
Nov 10-12, 2016 Alicante, Spain

International Conference on
Counselling Psychology
Dec 8-9, 2016 San Antonio, USA

4th International Conference on
Psychiatrist and Geriatric Psychiatry
Dec 8-9, 2016 San Antonio, USA

Radiology

5th International Conference on
Radiology and Imaging
Sep 19-20, 2016 Las Vegas, USA

International Conference on
Medical Imaging and Diagnosis
Oct 20-21, 2016 Chicago, USA

International Conference on **Radiography**
Nov 21-22, 2016 Dubai, UAE

Reproductive Medicine and Womenheathcare

World Congress on
Midwifery and Women's Health
Aug 29-31, 2016 Atlanta, USA

2nd World Congress on
Polycystic Ovarian Syndrome
Oct 6-8, 2016 Orlando, USA

3rd International Conference on
Gynecology & Obstetrics
Nov 24-26, 2016 Dubai, UAE

International Conference on **Reproductive Health**
Dec 5-7, 2016 Dallas, USA

Surgery

Global Surgery and Transplation Congress
October 03-04 2016 Atlanta, USA

International Conference on
Plastic and Aesthetic Surgery
Aug 8-10, 2016 Toronto, Canada

International Conference on
Anatomy & Physiology
Aug 11-13, 2016 Birmingham, UK

Podiatrist Meeting on
Foot and Ankle Surgery
Aug 15-16, 2016 Portland, Oregon, USA

6th Orthopedics Expo & Surgeons Meeting
Sep 12-14, 2016 Atlanta, USA

4th International Conference on
Anesthesia and Intensive Care Treatment
Sep 15-16, 2016 San Antonio, USA

International Conference on **Medical Sonography**
Sep 26-27, 2016 Toronto Canada

International Conference and Exhibition on
Plastic and Reconstructive Surgery
Oct 6-7, 2016 Orlando, USA

7th Global Orthopedicians AnnualMeeting
Oct 13-15, 2016 Kuala Lumpur, Malaysia

International Conference on
Vascular Medicine and Surgeons Meeting
Oct 24-25, 2016 Chicago, USA

2nd International Conference and Expo on
Biomechanics and Implant Design
Nov 7-9, 2016 Las Vegas, USA

Specialists Meeting on
Ear, Nose and Throat Nov 7-9, 2016 Alicante, Spain

5th International Conference and Exhibition on
Surgery Nov 7-9, 2016 Alicante, Spain

4th Global Summit and Medicare Expo on
Head & Neck Surgery
Nov 28-30, 2016 San Antonio USA

Vaccines

International Conferences on
Travel Medicine and Vaccines
Aug 1-2, 2016 New Orleans, USA

Global Summit and Expo on
Vaccines & Vaccination Sep 12-14, 2016 Phoenix, USA

International Conference on **Hepatitis Vaccines**
Sept 26-27, 2016 Valencia, Spain

Children Vaccines World Congress
Oct 10-11, 2016 Kuala Lumpur, Malaysia

13th Global Vaccines & Vaccination Summit and Expo
Oct 31-Nov 2, 2016 Istanbul, Turkey

14th Asia Pacific Global Summit and Expo on
Vaccines & Vaccination
Nov 24-26, 2016 Melbourne, Australia

Annual Conference on
H1N1 & Influenza Vaccines
Dec 1-2, 2016 Atlanta, USA

Annual Conference on **Virulant HIV Vaccines**
Dec 8-9 2016 Philadelphia USA

Veterinary

3rd International **Veterinary Congress**
Aug 18-20, 2016 London, UK

5th Animal Health and Veterinary Medicine Congress Sep 26-27, 2016 Valencia, Spain

6th Global Veterinary Summit
Nov 14-16, 2016 Atlanta, USA

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Keynote Forum

(Day 1)



Asfaw Beyene, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Asfaw Beyene

San Diego State University, USA

Advances in morphing wind turbine blade for wind energy conversion

One serious challenge of energy systems design, wind turbines in particular, is the need to match the system operation to the variable load. Invariably, system efficiency drops at off-design load, i.e., both at over- and under-load regimes. One strategy to address this challenge for wind turbine blades, and obtain a more consistent efficiency over a full or wide load range, is by controlling the pitch. This is a cumbersome intervention because it is costly - adding complexity and energy investment to the system operation. A better alternative would be varying the blade geometry passively with a predictable morphing of wind turbine blade in reaction to wind load conditions. This concept, introduced recently, is derived from fish locomotion, as from spoilers and ailerons. In this work, we employ a fully coupled technique on CFD and FEM models to introduce continuous morphing to desired and predetermined NACA 4412 profile. Then, we assess the aerodynamic behaviour of a morphing wind turbine airfoil using a two-dimensional computation. The computational results suggest that the morphing blade has superior part-load efficiency over the rigid NACA blade.

Biography

Asfaw Beyene graduated with PhD from Warsaw University of Tech., Warsaw. He is a Fellow member of ASME, and currently serves as Director of the Renewable Energy and Energy Efficiency at SDSU. His research integrates analytical, computational, and experimental techniques to address fundamental and practical problems of energy conversion. He has developed novel methods for wind and wave energy conversion. Over the years, he has attracted several millions of dollars in funding from NSF, DOE, US Navy, CEC, and others. He is the recipient of many research and teaching awards. He has authored significant number of refereed journal articles, conference proceedings, and technical reports.

abeyene@mail.sdsu.edu

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Peter Jamieson
University of Strathclyde, Scotland

An innovative solution for large unit capacity wind energy converters offshore

A 20 MW multi-rotor system, as developed in the Innwind.EU project, comprising 45 wind turbines of 450 kW rating is compared with very large single rotor designs. Having many rotors located on a single support structure, avoids a key upscaling disadvantage of the single large wind turbine. Swept area (energy capture value) increases as a square law whilst mass (cost) increases cubically. Huge savings in the total cost of rotors and drive trains (~80%) result compared to an equivalent single large rotor. Commercial risks (impact of a serial fault in production) are much reduced. Smaller turbines with standardized components, increased production volume and faster product development cycles all enable cost reduction and enhanced reliability. Power performance gains rather than losses in a large array of closely spaced turbines were found using vortex modelling and CFD. Yawing the complete system, comprising a lattice frame with turbines on nacelles tower on a jacket foundation, was determined as feasible and cost effective using a twin bearing system. O&M evaluation considered reliability and availability impacts showing overall cost reduction. An in-built overhead crane system avoids use of large jack-up vessels. A cost model independenly devloped in Innwind to assess a variety of innovations is employed and cost of energy reduction ~ 30% is predicted (without any account of the commercial impact of much reduced project risk). Limitations in the present level of design and analysis are ackowledged. Nevertheless, the MRS concept seems very deserving of accelerated research effort.

Biography

Peter Jamieson has been a wind energy professional since 1980, responsible for wind turbine development and much involved in the design of the Howden wind turbines for a 26 MW wind farm erected in California in 1985. As Senior Principal Engineer in Garrad Hassan from 1991 – 2013, he founded their Special Projects Department and since October 2009 has been employed as Senior Technology Adviser in the Wind Energy Centre for Doctoral Training of Strathclyde University. His book “Innovation in Wind Turbine Design” (Wiley, 2010) reflects a career involvement in wind technology evaluation and development.

peter.jamieson@strath.ac.uk

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Jae-Sung Bae

Korea Aerospace University, Korea

Feasibility study on a fabric-covered wind turbine blade

For a couple of decades wind turbine blades become bigger in size to increase the performance and efficiency but the conventional design and manufacturing process of wind turbine blades have still been used. As the 6 MW WT blades are developed, their mass and manufacturing costs are also increased significantly. The conventional design and manufacturing process might not be used for the 10 MW WT blades in the near future. Therefore, new paradigms of the WT blade design and manufacturing should be developed. The present study introduces a fabric-covered WT blade technology which is composed of composite or metal spar-rib and covering skin of fabrics. The proposed structure of WT blade is similar to the truss-sin structure of the aircraft wing in World War I. In the proposed blade structure, the entire load will be subjected to the spars, ribs and skins keep the shape of the blade cross-section and transfer the loads to the spars. A feasibility study is performed to develop the new technology of a fabric-covered WT blade. A couple of blade cross-sections were designed and their structural properties were calculated by using VABS and these structural properties were compared to those of the reference 5MW WT blade. The numerical results showed that the proposed blade design could reduce the blade mass over 30% although the present design is a preliminary step.

Biography

Jae-Sung Bae completed his BS degree in Aeronautical and Mechanical Engineering from Korea Aerospace University in 1996 and MS degree in Aerospace Engineering from KAIST in 1998. He then received his PhD in Aerospace Engineering from KAIST in 2002. He is currently working as an Associate Professor at the School of Aerospace and Mechanical Engineering at Korea Aerospace University in Goyang-City, Korea. He has published more than 30 papers in international journals. His main research interests include aero elasticity, vibration and control, wind energy, and UAVs.

jsbae@kau.ac.kr

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Scientific Tracks & Abstracts

(Day 1)



Sessions

Day 1 July 28, 2016

Wind Power Technology | Wind Turbines Instrumentation | Wind Safety Measures Hydro Power Technology | Renewable & Sustainable Energy

Session Chair
Asfaw Beyene
San Diego State University, USA

Session Co-chair
Modour Zgoul
American University of Madaba, Jordan

Session Introduction

Title: Condition Based Maintenance of Offshore Wind Turbines - Identification of critical operation conditions & determination of the next oil exchange by 24/7 Monitoring of Oil Quality, Oil Aging and Additive Consumption

Manfred Mauntz, cmc Instruments GmbH, GERMANY

Title: A software package for maintenance management of wind turbines

Yashwant Sinha, Robert Gordon University, United Kingdom

Title: Domestication of Wind Energy Through Integration of House-hold Fan

Bijon Kumar Sil, The Awesome Place (TAP), Singapore

Title: Capabilities of wind turbine ground test facilities – Benefits from standardizing test methods of blade and nacelle test centre around the world

Dennis Bosse, RWTH Aachen University, Germany

Title: Thermo graphic rotor blade inspection from larger distances- A promising tool for the maintenance of wind turbines

Rainer Krankenhagen, Federal Institute for Materials Research and Testing, Germany

Title: Work shop on An Innovative Solution for Large Unit Capacity Wind Energy Converters Offshore

Peter Jamieson, University of Strathclyde, UK

Title: Development and Structural Numerical Analysis of Light Shell with Frame Diffusor

Tomasz Szafranski, Military University of Technology, Poland

Title: One and Double Sided Coupling Methods for Structural Analysis of Wind Power Blades

Michał Tomaszewski, Military University of Technology, Poland

Title: The effect of grid resolution on large – eddy – simulations for the atmospheric boundary layer

Ioannis Bouras, University of Sheffield, UK

Title: The impact of the yaw error on the performance of a horizontal axis wind turbine

Daniele Vitali, Marche Polytechnic University, Italy

Title: Optimization Wind Power Production in Cold Climate and Icing in Canada

Mohammad Sadegh Eslamipour, Mapna Generator, Iran

Title: Design, Construction, Simulation and Performance Evaluation of a Guadua Angustifolia Solar-Electric Vehicle

Jose Alejandro Posada, Pascual Bravo University Institute, Colombia

Manfred Mauntz, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Title: Condition Based Maintenance of Offshore Wind Turbines - Identification of critical operation conditions & determination of the next oil exchange by 24/7 Monitoring of Oil Quality, Oil Aging and Additive Consumption

Manfred Mauntz
cmc Instruments GmbH, 65760 Eschborn, Germany

A new oil condition monitoring system is presented for the continuous, online measurement of the wear in industrial gears, turbines, generators, transformers and hydraulic systems – escpecially suited to offshore wind turbines. The detection of change is much earlier than existing technologies such as particle counting, vibration measurement or recording temperature. Thus, targeted, corrective procedures and/or maintenance can be carried out before actual damage occurs. Efficient machine utilization, accurately timed preventive maintenance, a reduction of downtime and an increased service life and can all be achieved.The oil sensor system measures the components of the complex impedances X of the oils, in particular the electrical conductivity, the relative dielectric constant and the oil temperature. All values are determined independently from each other. Inorganic compounds occur at contact surfaces from the wear of parts, broken oil molecules, acids or oil soaps. These all lead to an increase in the electrical conductivity, which correlates directly with the wear. In oils containing additives, changes in dielectric constant infer the chemical breakdown of additives. A reduction in the lubricating ability of the oils, the determination of impurities, the continuous evaluation of the wear of bearings and gears and the oil aging all together follow the holistic approach of real-time monitoring of changes in the oil-machine system. By long-term monitoring and continuous analysis of the oil quality, it is possible to identify the optimal time interval of the next oil exchange – condition based. This results in enormous cost reduction, when the oil is still stable and fully functional.

Biography

Dr.-Ing. Manfred Mauntz received his diploma in Engineering from the University of Kaiserslautern in 1982 and earned a doctorate with honors in Engineering from the University of Siegen. He has worked extensively in the analytical and process instrumentation industry. He is the founder, CEO and Head of Development and Research of cmc Instruments GmbH which develops and manufactures analytical and measurement systems.

mrm@cmc-instruments.de

Notes:

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A software package for maintenance management of wind turbines

Yashwant Sinha
Robert Gordon University, UK

The installed capacity of Offshore Wind Turbines (OWT) in Europe is likely to be 150GW by 2030. Maintenance of these OWT will incur £14 billion/yr in 2030 if currently used maintenance strategies remain unchanged. There is a need to shift from random to a novel maintenance scheme that is optimised for all types of wind farms. This will also require support of software tools and systems to collect, analyse and interpret data associated with thousands of components in OWT. In this work, design of a software tool that can automate planning and management of OWT maintenance and control costs is presented. The tool is designed using a modified framework of Failure Mode Effects and Criticality Analysis (FMECA). This framework enables storage of component level failures for over 10,000 components and analysis of their potential root causes. The framework also enables estimation of the consequences of a failure based on 7 different parameters so that maintenance can be prioritised. In its present form, the tool is able to correlate failures to their root causes and hence predict failure under different conditions. The database of the tool includes over 800 relationships between failures and their root causes for gearboxes and generators. This can be scaled for other components in an operational OWT and plan for predicted failures. The tool also contains other modules including recommending step by step maintenance strategy related to specific failures. A database of these maintenance strategies will reduce human errors during maintenance. Another modules of the tool are being developed to create an enterprise resource planning software package for wind turbines which will automate wind farm data management and cost effectively plan their maintenance. This will be enhancing the use of SCADA system data to detect failures and consequently plan maintenance.

Biography

Yashwant Sinha has successfully defended his PhD at Robert Gordon University, UK. His topic of research was Optimisation of Offshore Wind Turbines Maintenance. Previously, he did his MPhil from University of Cambridge and BE from Sikkim Manipal Institute of Technology, India. Currently, he is engaged as a Lecturer in the Department of Engineering at Robert Gordon University, Aberdeen. He has over 8 years experience of working in the services and maintenance industry. He has published papers on supporting wind turbine maintenance by using software tools. He is currently working on developing a ERP package for the wind industry.

y.sinha@outlook.com
yashwant.sinha@gmail.com

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Domestication of wind energy through integration of house-hold fan

Bijon Kumar Sil
The Awesome Place, Singapore

This study relates to the generation of electricity by mini wind generator through integration and utilization of air released from house-hold fan and its recycling. The use of wind to generate electricity by wind turbine system is already established and is environmentally friendly. However a constant and uninterrupted flow of wind is one of the major challenges of this technology as it is difficult to manage natural air flow. The current invention (Singapore Patent: 10201600351U) is focused on a new technology by integrating house-hold fan with mini wind generator so that the system efficiently managed the flow of uninterrupted air, rotate blades and generate constant amount of electricity which later is stored in a power bank. This electricity is a renewable and/or recyclable either to run the mother fan or charge other electrical devices like mobiles, tablets and laptops and is called Recycle Electricity (RECEL). The prototype Model was developed using 12V-36V mini generator and 25Wh powered floor-type fan which generated around 15Wh electricity and revealed it promising commercialization. Integration of the Model with 1 billion house-hold fans (50watts/hour) (currently used world-wide) could easily generate approximately 112TWh/year (25wx15hX300days) which is more than sufficient to charge 7.1 billion smart-phones (115TWh=15wx3hx365daysx7). This new capability will add important flexibility of generation and utilization of wind power electricity in a control fashion and bring the technology at the door step of end users. The technology enabling the double uses of house-hold fan: cooling the environment and generating electricity which could provide energy to the fastest growing mobile information technology and at large for the society.

Biography

Bijon Kumar Sil has completed his PhD from University of Surrey, UK and Post-doctoral studies from Kittasato University, Japan in Immunology. He is the Director of The Awesome Place an emerging Technology based R&D company. He has published more than 30 papers in reputed journals and attended over 20 international conferences world-wide.

silkumarbijon@gmail.com

Notes:

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Capabilities of wind turbine ground test facilities-Benefits from standardizing test methods of blade and nacelle test center around the world

Dennis Bosse
RWTH Aachen University, Germany

IEA Wind Task 35 intends to address the demand for reliable and cost-effective ground testing of wind turbines. The experts from research testing facilities, OEMs, test rig manufacturer and certification bodies work together in Task 35 to develop recommendations for standardized test methods. Several public and private blade test facilities around the world are about to harmonize blade test methods, uncertainty estimation, non-destructive inspections and subcomponent testing for the advancement of the present certification processes and to improve extant basic test procedures. The recent established nacelle test laboratories (US, DK, GB, DE, CN, ES) collaborate to develop new kinds of tests for design and model validation as well as to facilitate and improve the type certification using ground tests. An overview of blade and nacelle test center is useful for the customer to compare common and unique testing capabilities. Significant blade test criteria include maximum blade length, excitation for fatigue tests and horizontal or vertical bending techniques. Nacelle test criteria include type, maximum torque and speed of prime mover, degrees of freedom, maximum forces and bending moments of the wind load application system as well as the grid load emulation capabilities such as fault ride through scenarios and the real time emulation of grid and the wind field. In near future, both blade and nacelle test facilities shall be capable of performing the same standardized test with equivalent results at the same confidence level. The presentation gives an overview of the various nacelle and blade test capabilities, test approaches and benefits.

Biography

Dennis Bosse studied mechanical engineering with a specialization in construction and development at the RWTH Aachen University until 2007.Since 2007, he has been working as a scientific assistant at the IME. In 2011, Mr. Bosse became team leader of the group “Test Methods” in the field wind. There he coordinates research activities in the joint project “Improvement of operational behaviors of On-Shore wind power plants by means of a new type of system test rig” and the setting up of the “Center for Wind Power Drives” at the RWTH Aachen University as well as the construction of a 4 MW system test rig for wind power plants. Since July 2013, Mr. Bosse is responsible for the topic test as business unit manager at the Chair for Wind Power

bosse@ime.rwth-aachen.de

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Thermo graphic rotor blade inspection from larger distances – A promising tool for the maintenance of wind turbines

Rainer Krankenhagen, Mathias Röllig and **Taarna Studemund**
Federal Institute for Materials Research and Testing, Germany

The turbine rotor blades are one of the most stressed components of a wind turbine, and the trend to longer blades beyond 50 meters leads to increasing loads. The standard inspection procedure is visual and by coin-tap, it requires highly trained stuff special equipment and a stopped turbine. In order to reduce direct access to the particular blades, an inspection method working at longer distances is needed. In addition to the installation of Condition Monitoring Systems (CMS) camera inspection by means of photo cameras as well as infrared cameras could be a suited tool. Although the onsite thermo graphic inspection of rotor blades was presented in 2006 by Meinlschmidt and Aderhold, almost no further development or observation results were published so far. The talk presents some selected results from a research project concerning the thermo graphic rotor blade inspection. It is demonstrated that the observation can be performed at resting as well as at rotating blades. Pros and cons of the proposed reference method are discussed using some examples from onsite measurements.

Biography

Rainer Krankenhagen received a diploma degree in Solid state physics in 1990 and a Ph.D. from Humboldt-University Berlin in 1996. His thesis was dealing with material research for photovoltaics. Since 2008 he works as a senior scientist in the Federal Institute for Materials Research and –Testing (BAM) in the field of nondestructive testing. From 2011 until 2015 he was in charge for the research project IKARUS concerning thermographic inspection of wind turbine rotor blades from larger distances.

rainer.krankenhagen@bam.de

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Workshop

Day 1



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Peter Jamieson
University of Strathclyde, Scotland

An innovative solution for large unit capacity wind energy converters offshore

A 20 MW multi-rotor system, as developed in the Innwind.EU project, comprising 45 wind turbines of 450 kW rating is compared with very large single rotor designs. Having many rotors located on a single support structure, avoids a key upscaling disadvantage of the single large wind turbine. Swept area (energy capture value) increases as a square law whilst mass (cost) increases cubically. Huge savings in the total cost of rotors and drive trains (~80%) result compared to an equivalent single large rotor. Commercial risks (impact of a serial fault in production) are much reduced. Smaller turbines with standardized components, increased production volume and faster product development cycles all enable cost reduction and enhanced reliability. Power performance gains rather than losses in a large array of closely spaced turbines were found using vortex modelling and CFD. Yawing the complete system, comprising a lattice frame with turbines on nacelles tower on a jacket foundation, was determined as feasible and cost effective using a twin bearing system. O&M evaluation considered reliability and availability impacts showing overall cost reduction. An in-built overhead crane system avoids use of large jack-up vessels. A cost model independenly devloped in Innwind to assess a variety of innovations is employed and cost of energy reduction ~ 30% is predicted (without any account of the commercial impact of much reduced project risk). Limitations in the present level of design and analysis are ackowledged. Nevertheless, the MRS concept seems very deserving of accelerated research effort.

Biography

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peter.jamieson@strath.ac.uk

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Young Researchers Forum

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Development and strutural numerical analysis of light shell with frame diffusor

Tomasz Szafranski, Jerzy Małachowski and **Krzysztof Damaziak**
Military University of Technology, Poland

This paper presents development of a light shell diffuser with a frame intended for a small wind turbine (rated power of 3kW). The concept was created as an attempt to reduce the mass of the diffuser made of glass fibre composites which are the most commonly used materials for such applications nowadays. The geometrical shape of the diffuser, developed at Technical University of Lodz, was based on computed fluid dynamics (CFD) simulations considering turbine efficiency optimization for low wind speed conditions. The authors focused on developing an overall structural design, as well as detailed technical solutions (stiffener struts, connections, material forming issues). Subsequently, static structural finite element analysis was performed in order to assess stiffness and stress distribution. In this case, load conditions include pressure field from the CFD analysis and gravitational forces. The obtained results lead to a conclusion that the designed aluminium shell frame diffuser may be an alternative option for a composite diffuser. Moreover, the developed structure is characterised by lower mass and comparable stiffness to its composite counterpart. It is worth mentioning that, lighter diffusers allow a use of lighter supporting structures, such as towers or guyed masts. This fact may contribute to reducing the overall costs of future small wind turbines and could potentially be very beneficial for the market of privately owned small wind turbines.

Biography

Tomasz Szafranski received the BEng degree in 2013 and the MSc degree in Mechanical Engineering in 2015 from Military University of Technology, Warsaw, Poland. He is currently

a PhD candidate in the Department of Mechanics and Applied Computer Science, Military University of Technology, Warsaw, Poland. His areas of interest are renewable energy in terms of structural design, numerical modelling and simulation.

tomasz.szafranski@wat.edu.pl

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One and double sided coupling methods for structural analysis of wind power blades

Michał Tomaszewski and **Jerzy Małachowski**
Military University of Technology, Poland

Recent years were marked by increasing interest in harnessing renewable energy sources. Programs are made to popularize natural energy sources such as: Solar energy, ocean waves, river water flow or wind. Great financial investments are made for wind power plants. Wind turbines as energy source were used for centuries, with the difference of converting the wind energy into mechanical energy. With years, their construction and use changed, but the basic principle remained the same. Swift progress of numerical methods allowed constructors to determine how the construction will work even before prototyping. Issues with analyzing wind turbines are far from simple. Wind is a product of pressure differences. The turbine's rotor is subjected to pressure causing strain in the construction. To simulate this, CFD software is required to create wind flow analysis. Such analysis provides us with knowledge about pressure distribution affecting the rotor's blades and visualizes the flow line. To find out how much the blade will bend however, a structural analysis is required. Presented in the paper are analyses made with two different methods of coupling – one-sided and double-sided. A small wind turbine fitted with diffuser to increase the wind speed in front of the rotor was used in both analyses. A process of building the flow domain to most accurately reproduce the actual flow will be presented. The study was supported by the National Centre for Research and Development within project "STOW" - Small Wind Turbine Optimized for Wind Low Speed Conditions.

Biography

Michał Tomaszewski has received the BEng degree in 2013 and the MSc degree in Mechanical Engineering in 2015 from Military University of Technology, Warsaw, Poland. He is currently a PhD candidate in the Department of Mechanics and Applied Computer Science, Military University of Technology, Warsaw, Poland. His areas of interest are renewable energy in terms of computational fluid dynamics, numerical modelling and simulation.

michal.tomaszewski@wat.edu.pl

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The effect of grid resolution on large-Eddy-simulations for the atmospheric boundary layer

Ioannis Bouras, Ava Shahrokhi, Mahyar Mahmoodilari, Derek Ingham, Lin Ma and **Mohammed Pourkashanian**
The University of Sheffield, UK

Air flow around a building has been simulated by employing LES and Smirnov's inflow generation technique. Accurate inflow data for LES are of paramount importance in order to obtain reliable results for the air velocity and turbulence levels. Otherwise, the flow shows a laminar behavior regardless of the Reynolds number and it requires several characteristic lengths to be recovered. Further, the initialization of the flow is among the top problems in wind engineering. In large Eddy simulations, velocity and turbulence profiles provide detailed information which is necessary for the wind resource assessment of wind turbines or wind farms that are positional at any height throughout the atmospheric boundary layer from any commercial CFD software. One of the biggest problems with LES is that the turbulence throughout the inlet of the computational domain must be fully prescribed. The present work shows the characteristics of the flow around a building by employing Smirnov's random flow generation technique for the inflow generation data. This study is a part of the European Project *New innovative solutions, components and tools for the integration of wind energy in urban and peri-urban areas* (acronym SWIP). The building is located in Saragossa in Spain, where a wind turbine will be installed. The energy spectrum is analyzed at different locations in the computational domain and the velocity fluctuations generated initially at the inlet and throughout the entire domain are proven to maintain the turbulence within the entire computational domain. This is also confirmed by the distribution of normal and shear Reynolds stresses throughout the domain. Finally, the present work illustrates the effect of the grid resolution on the results.

Biography

Ioannis Bouras is a PhD student in the Energy Group in the Department of Mechanical Engineering of the University of Sheffield. He has completed his MSc in CFD course from the School of Engineering in Cranfield University in 2013. His main research area is on the atmospheric boundary layer investigating inflow generation techniques for LES/DNS and turbulence maintenance techniques throughout the atmospheric boundary layer.

ibouras1@sheffield.ac.uk

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The impact of the yaw error on the performance of a horizontal axis wind turbine

Daniele Vitali
Marche Polytechnic University, Italy

The Horizontal Axis Wind Turbines (HAWTs) need to be orientated into the wind direction in order to extract as much kinetic energy as possible. In medium-small wind turbines the yaw motion is often used also for power regulation purpose. The yaw control problem has been often underestimated among the design activities, both in the rotor modeling and in the related structural issues. The strategy to face this problem should include the optimal trade-off between aerodynamic efficiency and yaw-induced variable loads. Moreover, strategy is also closely dependent on the scale and the configuration of the analyzed wind turbine rotors, e.g. two-bladed ones are emblematic for their unsteady inertial loads during the yaw operation. The turbulent nature of wind makes the control task even more remarkable, because of the difficulty in the measure of the direction. The nacelle sensor commonly used is unfortunately affected by the interaction of the turbine itself with the air. This work tries to contribute to underline the key aspects useful in the yawing design of medium-small wind turbines in particular. The focus here is on a 60 (kW) fixed speed wind turbine produced in Italy, stall regulated and provided with active yaw control. The onsite experimental data are analyzed to evaluate the impact of the yaw system on the energy production and to validate a blade element aerodynamic model. It is also investigated the effect of the rotor over the direction sensor used in the yaw control at different wind speeds.

Biography

Daniele Vitali received his PhD in 2013 in Energy Engineering from Marche Polytechnic University (Ancona, Italy), where he is carrying on also his Post-doctoral studies. His research topics are mainly hybrid wind-solar micro generation systems and the overall simulation of horizontal axis wind turbines. He collaborates also with the WEST-LAB laboratory of the same University, which provides certification along with technical and scientific consulting to the companies of wind energy sector.

d.vitali@univpm.it

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Optimization wind power production in cold climate and icing in Canada

Mohammad Sadegh Eslamipour
MAPNA Generator Co., Iran

Wind energy play a major role in the solution to global climate. Because, it can make a major contribution in the effort to protect environment, while protecting against fuel cost. Therefore, it is relatively safe to inflation. This paper is addressing the request of wind energy update organization (central information and networking platform for the Global wind industry) for research about technologies that can help to reduce the impact of cold climates which caused to loss 15% of wind energy production as a direct result of such conditions in Canada each year. This paper represents how to maximize operation time for turbines during periods of extreme cold and snow. Also discuss how to use highly valued equipment in wind turbine in-order to explore the latest advances on how to mitigate production losses resulting from icing as well as concerns raised over risk, structural failures, and cost models related to wind energy.

Biography

Mohammad Sadegh Eslamipour has MS degree in Science of Industrial Engineering from USA in 1988. He joined MAPNA Generator Co. in 1998. He was Project Manager of Manufacturing of 4 units of 250MW Hydro generators for Upper Gotvand Hydro Power Plant in south of Iran. He worked in university as Research Assistant before he joined MAPNA. He has written and presented over 30 papers for numerous conferences throughout his career. He was member of 2012 Hydro-vision Russia Advisory Board. His project (Upper Gotvand Hydro Power Plant) won Asian Power Award 2012, Bangkok, Thailand. He was paper reviewer for conferences such as Industrial Engineering and Operations Management Conference 2014, Industrial Engineering and Operations Management Conference 2015, 21st International Conference on Information Systems Analysis an Synthesis 2015-2016, Industrial Engineering and Operations Management Conference and 7th International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC) 2016.

eslamipour@mapnagenerator.com

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Design, construction, simulation and performance evaluation of a Guadua Angustifolia solar-electric vehicle

Jose Alejandro Posada and **Jose Palacio**
Pascual Bravo University Institute, Colombia

A solar electric vehicle was designed, constructed, simulated and evaluated at Pascual Bravo University Institute. The main structure was made from guadua angustifolia with joints from rope and epoxy. Engine and front wheel supports were made from 1020 steel. Front and rear-wheels suspension was reused from motorcycles and rack-and-pinion steering from a vehicle. A 14 kW 72VDC brushless permanent magnet motor with a Sevcon Gen4 controller was connected by a chain transmission to the rear wheels. Six in-series-connected 12V deep cycle lead acid batteries can be charged by a 250 kW polycrystalline solar panel, a 120VAC charger, or by the Kinetic Energy Recovery System (KERS). The vehicle can carry two persons at 50 km/h and 50 km range. Performance simulations were done in an in-house Matlab code which compares well with the experiments. A Data Acquisition System was built with an Arduino Uno through an ATmega32U4 microcontroller and a micro SD card to record battery voltage and current during charging and discharging operations. Multimeter and volt-amp-meter measurements were done to verify DAQ measurements. The battery discharging time when the motor is operating at full throttle with the vehicle lifted in jacks is around 7 hours and the current is 5A. The battery volt discharging curve compares well with the manufacturer. High current peaks were observed during engine deceleration which could be produced by the KERS. The solar panel can charge the batteries in 22 hours and the AC charger in 3 hours. A preventive maintenance plan was also developed.

Biography

Jose Alejandro Posada has a PhD in Aerospace Engineering from West Virginia University (WVU), a MEng in Aeronautical Engineering from Pontifical Bolivarian University (UPB), and a BSc in Mechanical Engineering from National University of Colombia. He is the CEO of Viaja Verde, a company that converts motorcycles to electricity and a Professor and Environmental Research Group leader at Pascual Bravo University Institute. He was a Visiting Professor in the Department of Mechanical and Aerospace Engineering at WVU, and an Associate Professor at UPB. He has made contributions in the prediction of airborne virus viability and the reduction of induced drag in aircraft.

jposadam@gmail.com

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Keynote Forum

(Day 2)



Syed Mofizul Islam, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Syed Mofizul Islam
Curtin University, Australia

Technological advances in grid code compliance, high penetration and drive train diagnostics of wind energy conversion systems

Wind Power Generation continues to grow and is the key contributor to large scale variable power connected to grid in the renewable energy generation mix. Utility transmission system operators impose stringent grid codes internationally. The emphasis are given to low and high voltage ride-through capabilities, active and reactive power responses during and after faults, and reactive power (voltage) regulation. Rapid technological developments are in progress to meet various grid code requirements. In this paper, fault ride through techniques for all four types of wind energy conversion systems (WECS) are considered and some research studies are presented involving enabling technologies in grid code compliance, congestion management, and drive train diagnostics conducted at the Centre for Smart Grid and Sustainable Power Systems at Curtin University, Australia.

Biography

Syed Mofizul Islam received the BSc degree in Electrical Engineering from Bangladesh University of Engineering and Technology, Bangladesh in 1979, the MSc and PhD degrees in Electrical Power Engineering from the King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, in 1983, and 1988 respectively. He is currently the John Curtin Distinguished Professor in Electrical Power Engineering and the Director of Centre for Smart Grid and Sustainable Power Systems at Curtin University, Perth, Australia. He received the Dean's medallion for research at Curtin University in 1999; the IEEE T Burke Haye's Faculty Recognition award in 2000; Curtin University inaugural award for Research Development in 2012; and Sir John Madsen medal in 2011 and 2014 for best electrical engineering paper in Australia. He has published over 300 technical papers in his area of expertise. He has been a Visiting Professor at Shanghai University of Electrical Power, China. He is also the Dean International for the Faculty of Science and Engineering at Curtin University. He is a member of the steering committee of the Australian Power Institute and a member of the WA EESA board. He is an Editor of the IEEE Transaction on Sustainable Energy and an Associate Editor of the IET Renewable Power Generation. He has over 4500 citations and his h-index is 29.

S.Islam@curtin.edu.au

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David Greenblatt
Technion – Israel Institute of Technology, Israel

DBD plasma flow control on wind turbine blades

Recent demand has driven renewed interest in vertical axis wind turbines (VAWTs) due to their insensitivity to wind direction, proximity of the generator to the ground and low noise levels. A drawback of VAWTs is the dynamic stall their blades experience as they pitch beyond their static stall angle, resulting in power losses and large unsteady loads imposed on the drive train. During the last four years, our research group has made significant progress in controlling VAWT dynamic stall by means of pulsed dielectric barrier discharge (DBD) plasma actuators. We produce plasma pulses at frequencies that correspond to flow instability frequencies, thereby generating blade-spanwise vortices that transfer high momentum fluid to the blade surface. This ameliorates or eliminates dynamic stall. We constructed and tested small double-bladed VAWT with dielectric barrier discharge plasma actuators installed on the upwind blade's leading-edges. Introducing the pulses produced a 35% increase in gross turbine power. We complemented this study by performing particle image velocimetry measurements on the blades while subjected to pulsed plasma actuations and observed that the dynamic stall vortex was significantly ameliorated. Recently we have focused on feed-forward and closed-loop flow control and we achieved a remarkable net turbine power increase of more than 10%. Following this, we developed a scheme for switching between inboard and outboard control on the blades, thus facilitating both upwind and downwind dynamic stall control. Our present efforts are aimed at maximizing net turbine power output by means of closed-loop control and field-testing a 2 kilowatt proof-of-concept demonstrator.

Biography

David Greenblatt is an Associate Professor at the Technion's Faculty of Mechanical Engineering. He obtained his PhD from Tel Aviv University in 1999 and since then has held Post-doctoral and teaching positions at NASA, TU Berlin and IIT (Chicago). His research interests focus on energy-related flow control applications, unsteady aerodynamics, active separation control and dynamic stall control. He has than authored or co-authored more than sixty journal papers and book chapters, more than a hundred conference papers and reports, and has been awarded numerous patents. He is the Founder and Director of the Flow Control Laboratory.

davidg@technion.ac.il

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Scientific Tracks & Abstracts

(Day 2)



Sessions

Day 2 July 29, 2016

Wind Farms Construction | Solar Power Technology | Global trends in Renewable Energy Commercialization & Investment | Third Generation Wind Power | Ocean Energy

Session Chair
Dennis Bosse
RWTH Aachen University, Germany

Session Co-chair
A D Thirumoorthy
Indian Wind Power Producers Association (IWPA), India

Session Introduction

Title: The effect of the upstream wind conditions on the performance of a vertical axis wind turbine
Ioannis Bouras, University of Sheffield, UK

Title: Improving power forecasting in wind turbines using neural networks
Bartolomé Manobel Ponce, Universidad de La Serena, Chile

Title: Wind derivatives pricing issues
Yeny E. Rodríguez, ICESI University, Colombia

Title: Advanced Control for Wind Turbine Grid Connection Requirements
Nicolò Gionfra, Laboratoire des Signaux et Systèmes, France

Title: Title:Computational Aerodynamics Optimization of Wind Turbine's Blade Twist Angle
Moudar Zgoul, American University of Madaba, Jordan

Title: Assesment of Sub-Synchronous Resonance in Series Compensated Type 3 Wind Power Plant
V.B.Virulkar, Govt. College of Engineering Amaravati (MS), India

Title: Large Scale Integration of Renewable Energy in the Grid,Tamilnadu State's Experience
P.R. Muralidharan, Superintending Engineer, Renewable Energy Management Centre, Tantrnasco

Title: Case study of Power Quality Survey in Wind Farms
A.D.Thirumoorthy, Chief Technical Advisor, Indian Wind Power Producers Association (IWPA), India

Title: Transient and Steady-State Stability Analysis of SMIB Power System Embraced with Highly Penetrated PV Generator
Mohammad S. Widyan, The Hashemite University, Jordan

Title: Work shop on Domestication of Wind Energy Through Integration of House-hold Fan
Bijon Kumar Sil, The Awesome Place (TAP), Singapore

Title: Combining offshore energy production in multi-use combinations: Lessons learned from Europe
Stuiver Marian, Senior researcher at Wageningen University and Research Centre, Netherlands

Title: Energy and the climate change: One counter-face
Mohi El Din Kuku Bakheet, Alzaiem Alazhari University, Sudan

Title: Seawind 6- The complete offshore wind energy system to lower the CoE
Martin Jackubowski, Seawind Ocean Technology B.V., The Netherlands

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The effect of the upstream wind conditions on the performance of a vertical axis wind turbine

Ava Shahrokhi, Mahyar Mahmoodilari, Ioannis Bouras, Derek Ingham, Lin Ma and **Mohammed Pourkashanian**
University of Sheffield, UK

The effect of the upstream velocity profile on the performance of a rotating vertical axis wind turbine has been investigated using the SST k-ω turbulence model in unsteady flow conditions. This study is a part of the European Project "New innovative solutions, *components and tools for the integration of wind energy in urban and peri-urban areas* (acronym SWIP)". Recently more vertical axis wind turbines (VAWTs) have been installed in urban areas than before. This is due to the fact that VAWTs are more appropriate for urban regions than Horizontal Axis Wind Turbines (HAWTs). They are known to perform better in urban regions compared to horizontal axis wind turbines as they do not require alignment to the oncoming air flow. However, the wind flow speed in urban regions is substantially influenced by the structure of the buildings in the location that the turbine is to be installed. This includes changes in the angle of attack and formation of a vortex flow in the upstream wind that will alter the performance of the wind turbine. This work involves numerical simulation of the air flow around VAWT blades that is installed on the roof of a building. A turbulent velocity profile has been considered at the inlet which is exposed to the building obstacle before it encounters the VAWT. The computational fluid dynamics techniques will be based on Reynolds averaging of the unsteady Navier-Stokes equations (URANS). Since flow separation and in particular dynamic stall, are key flow processes occurring in such applications, the transient SST k-ω is the most appropriate turbulence model for wind turbine flow simulations with dynamic stalls. Therefore, this turbulence modelling scheme is utilized for the simulations of the VAWT. The results of the disturbed air flow around the turbine are compared with the case of an undisturbed wind at the inlet.

Biography

Ava Shahrokhi is a Research Fellow in the Energy Group in the Department of Mechanical Engineering of the University of Sheffield. She was awarded her PhD at the Department of Aerospace of the Amirkabir University in Tehran in 2009. Her research interest is generally on computational fluid dynamics (CFD) and she is currently focused on large eddy simulation in wind resource assessment of urban and pre-urban areas. This is a part of a major project of design, manufacture and installation of small/medium wind turbines which involves several industrial and academic partners from all around Europe.

a.shahrokhi@sheffield.ac.uk

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Improving power forecasting in wind turbines using neural networks

Bartolomé Manobel Ponce, Ignacio Salfate Lara and **Sonia Montecinos Geisse**
Universidad de La Serena, Chile

The correct estimation of the power generated by a wind turbine is a key issue to the provision of the electricity that the wind farm will transfer to the grid and for a correct evaluation of the performance of each turbine. The aim of this study is to present a simple, practical model that can be easily implemented to calculate the power developed by each turbine in a wind farm. Considering the different atmospheric and operational variables involved and the non-linear relationships between those variables, we developed a model based on artificial neural networks. Input data, mainly atmospheric variables, can be directly measured in the park or be results of predictions from meteorological models. We took into consideration the influence of the operational parameters when modeling the turbine availability. This factor has never been included in calculations of the power generated by wind farms. The result improves widely-used models that include polynomial fitting for adjusting the power curve and those based on the standards of the International Electro-technical Commission. An adjustable model for each individual turbine is presented which results in prediction errors of wind power forecasting of only 5% of the root mean square error. This model can be used for the evaluation of the performance of a turbine itself and for forecasting the power generated by a wind farm using data from numerical weather models.

Biography

Bartolomé Manobel Ponce has a MEng in Industrial Engineering and a BEng in Mechanical Engineering from University of Seville, Spain. He is currently working on a research project on renewable energy at the University of La Serena, Chile.

bmanobel@userena.cl

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Wind derivatives pricing issues

Yeny E Rodríguez
ICESI University, Colombia

Currently, the weather is being affected by the ENSO (El Niño-Southern Oscillation), the most important climate phenomenon on Earth due to its ability to change the global atmospheric circulation, influencing temperature and precipitation across the Globe. Countries boarded by the central and eastern tropical Pacific Ocean suffer surface warming. Therefore, they can incentivize sources like wind, taking into account the complementarity that exists between wind and precipitation. The purpose of this presentation is to offer alternatives for such countries to design and to price wind derivatives, using different methods that allow a comparison in terms of price and the derivatives characteristics to hedge weather uncertainties. Weather derivatives are financial instruments of hedging used to reduce weather uncertainties. Unlike traditional financial derivatives, the underlying variable of weather is not a traded asset. Given that a market for weather derivatives is highly illiquid due to the location-specific features of the contracts and the limited number of agents interested in trading them, governments interested in promoting renewables must stablish measures to ensure growth potential. As well, power generators interested in producing energy with wind turbines may consider buying these instruments to hedge their cash flows against the risks associated with the variability of wind speed.

Biography

Yeny E Rodríguez is a Statistician from Universidad Nacional in Colombia, with a Master's degree in Industrial Engineering and PhD studies in Management with emphasis in Finance from Universidad de los Andes in Colombia. Her professional experience includes working in public entities in her country. Currently, she is an Assistant Professor in ICESI University, and member of the Research Group Investment, Finance and Control at the Faculty of Administrative Sciences and Economics of ICESI. Her research interests are electricity markets, risk management, derivatives, public policy, and corporate governance of family firms.

yerodriguez@icesi.edu.co

Notes:

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Advanced control for wind turbine grid connection requirements

Nicolò Gionfra[1], **Houria Siguerdidjane**[1], **Guillaume Sandou**[1], **Damien Faille**[2] and **Philippe Loevenbruck**[3]
[1]Laboratoire des Signaux et Systèmes, France
[2]EDF R&D, Chatou, France
[3]EDF R&D, Clamart, France

In the recent years, the use of wind energy as an alternative to conventional sources has significantly increased. The growth of installed wind power capacity connected to the transmission and distribution network made an adaptation of the grid code necessary. Indeed, as it is already being experienced in some countries such as Denmark and Germany, this new scenario no longer allows wind farms to simply inject the maximum power, they are able to extract from the wind into the grid and to disconnect when a network fault occurs. As a result, a new set of grid connection technical requirements establishes some major constraints and performance that wind farms have to meet to contribute to the proper functioning of the electrical grid. In this work, we refer to those involving grid frequency control, power curtailment and other active power injection constraints. Since conventional wind turbine modes of operation are based on maximum power point tracking (MPPT) at low wind speed and power limiting at high wind speed, new advanced control methods need to be employed to let the turbine function in different operating points that would ensure the satisfaction of the grid requirements. In this presentation, we show how, in Matlab/Simulink simulation environment, the proposed control architecture proves to fulfil the aforementioned active power constraints while outperforming classic linear controllers such as the PI one. Simulations for different scenarios of interest are carried out based on CART (Control Advanced Research Turbine) parameters.

Biography

Nicolò Gionfra received the Bachelor's Degree in Electronic Engineering, and the Laurea Magistrale degree in Systems Engineering at "La Sapienza" University of Rome in 2011 and 2013 respectively, and the Research Master's degree in Automatic Control at CentraleSupélec in 2013. He is currently a PhD student in the Automatic Department at CentraleSupélec. His research interests include wind turbine and farm control, renewable energies, optimal and nonlinear control.

Nicolo.Gionfra@centralesupelec.fr

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Computational aerodynamics optimization of wind turbine's blade twist angle

Moudar Zgoul and **Samar Jaber**
American University of Madaba, Jordan

Wind turbine blades are a major component in the wind turbine system as it captures the wind's energy. The design of the blade is thus essential to ensure optimum energy harvesting. In this study, simulations using the finite element method were carried out to investigate the effect of the blade's dimensions and configurations to obtain the optimum twist angle and shear webs separation distance as a function of blade's chord length. During the aerodynamic analysis conducted on wind turbine system modeled with optimum real dimensions in terms of cost of energy generated (COE) suggested from previous literature, it was found that there is a linear relationship between the twist angles and shear webs separation distance. As the twist angle of the blade increases, the separation distance between the shear webs must be increased inside the blade to decreases the effect of the aerodynamic pressure affecting the top surface of the blade to avoid potential damage of the its structure. It was found that the optimum twist angle for the blade design is 22.5° with separation distance of 0.35% chord length.

Biography

Moudar Zgoul is an Associate Professor of Mechanical Engineering at the American University of Madaba-Jordan. He has completed his PhD from the Unversity of Surrey – UK in Applied Mechanics. He has published more than 25 papers in reputed journals. He is the chairman of the Mechanical Engineering Department at the American University of Madaba.

m.zgoul@aum.edu.jo

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Assesment of sub-synchronous resonance in series compensated type 3 wind power plant

V B Virulkar and **G V Gotmare**
Govt. College of Engineering Amaravati, India

Series compensation of existing transmission line is the effective way of transmitting remote power. However, series compensation leads to the serious destruction phenomena called Sub-Synchronous Resonance (SSR). SSR in conventional power plant is well documented in the literature, however very scant information is available in the literature about SSR in wind power plant (WPP). On 22nd October 2009, SSR event occurred at the Zorillo-Gulf wind farms. during this event, additional transmission facilities tripped and numerous crowbar circuits of WPP failed. Until this event, it was believed that type 3 WPP is immune to SSR. This incident has established that type 3 WPP is prone to SSR. Most of the work has been carried out to assess and mitigate the SSR in type 1 WPP. Very few papers carried out work related to SSR in type 3 WPP, hence study of SSR in type 3 WPP is necessary to provide comprehensive knowledge of this subject. This paper reports the study of steady state and transient SSR in series compensated type 3 WPP. A first bench mark model is adopted with type 3 WPP for SSR studies. In this paper the effect of different parameters like wind speed, size of WPP and fault location is studied using electromagnetic transient simulation in MATLAB/Simulink to study SSR in series compensated type 3 WPP.

Biography

V B Virulkar has completed his PhD from Vishveshwarayya National Institute of Technology, Nagpur (India). He is the Associate Professor in Department of Electrical Engineering of Govt. College of Engineering, Amaravati, India. He has published more than 40 papers in reputed journals and conferences.

vbvirulkar@yahoo.com

Notes:

P R Muralidharan, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Large scale integration of renewable energy in the grid – Tamil Nadu state's experience

P R Muralidharan
The Tamil Nadu Transmission Corporation Limited, India

The state of Tamil Nadu is located in the southern tip of India which is one of the Renewable rich states. This state was pioneer in bringing the grid connected wind energy to the country. The demonstration grid connected wind farm was established by the State Government, with the Danish funding, way back during early 90's. The successful commissioning of grid connected 120 windmills for a capacity of 19 MW, attracted private investors in this sector. Since then, there was no looking back and still Tamil Nadu has the highest RE capacity in India. This was made possible not only due high wind potential of our state but also due to the conducive polices of our State Government. The installed capacity of Renewable Energy (RE) power in our state, as of now, is around 9.7 GW (wind – 7.6 GW, solar – 1.1 GW, others – around 1 GW), out43 GW of the country's capacity i.e., which is around 23% country's capacity. In the meanwhile, India has envisaged an ambitious target of more than 175 GW of renewable power to be installed in the country by the year 2022. Of this, wind energy account for 60 GW and solar energy for 100 GW. Out of 29 states in India, only 7 to 8 states are RE rich. That means the entire addition fixed by the government has to be derived from these states only. In our state the installed capacity of RE power is about 35% of the total installed capacity of our state. When the % was less earlier, the wind power was absorbed fully. As the RE capacity increases, managing the grid has become a challenging job, while trying to absorb the entire wind energy. More over in Tamil Nadu, the wind is seasonal and available during May to September and even during the season, during intraday, the fluctuation is very high. For example, it varies from 2000 MW to 100 MW. Since we do not have adequate spinning reserve and our based load is met only from thermal generation, the sudden variation in wind cannot be managed.

Biography

P R Muralidharan is currently working as a Superintending Engineer in the Renewable Energy Management Centre, the Tamil Nadu Transmission Corporation Limited, India.

pradmur@gmail.com

Notes:

A D Thirumoorthy, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Case study of power quality survey in wind farms

A D Thirumoorthy
Indian Wind Power Association, India

Wind power generation is increasing rapidly in India and wind integration with the grid is considered as a promising source of energy, Double Fed Induction Generator (DFIG) being the most commonly used wind turbine generator, when integrated with the grid show challenges during grid faults. This paper focuses on the challenges faced by DFIG during the occurrence of voltage sags and the Low Voltage Ride through (LVRT) methods to overcome it. The crowbar protection method is used to ride through voltage sags and FACTS device STATCOM is used to quickly sense the voltage sag and overcome it. Furthermore, simulation has done using MATLAB/SIMULINK; analysis of the performance of combined crowbar protection and STATCOM on DFIG during voltage sags. The results show that crowbar protection method is a reliable method to ride through the fault and STATCOM helps to sense and overcome voltage sags quickly. Moreover, the grid code requirements are met, the utilisation of renewable energy resources like the wind, solar, biomass, etc., are increasing to meet the energy demand and to have sustainable growth. In sustainable energy system, energy conservation and the use of renewable energy resource are the key paradigm. The need to integrate the renewable energy like wind energy into the power system is to reduce the environment impact produced due to the conventional plant and to meet the required energy demands. However, the integration of wind energy into the existing power system presents technical challenges like voltage regulation, stability, power quality problems. The issue of power quality is of great importance to wind turbine. Thus, power system operators have created grid codes which determine how WT's should operate during grid disturbances.

Biography

A D Thirumoorthy is currently working as a Chief Technical Advisor, Indian Wind Power Association.

adtmoorthy@gmail.com

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Transient and steady-state stability analysis of SMIB power system embraced with highly penetrated pv generator

Mohammad S Widyan
The Hashemite University, Jordan

This paper aims to investigate the transient and steady-state stability of Single Machine Infinite Bus (SMIB) power system embraced with highly penetrated Photovoltaic (PV) generator. The complete nonlinear dynamical mathematical model of the system in dq stationary reference frame has been used for numerical simulations including the dynamics of the damper windings and Automatic Voltage Regulator (AVR) of the synchronous generator. The two generators are integrated at a common coupling point which has been shunted by a conventional capacitor. Both generators are interfaced to the grid via two parallel transmission lines. The robustness of this integration is checked out following step changes in the solar irradiance levels. The steady-state stability of the power system is studied via the eigenvalues of the linearized model around the operating point at wide range of solar intensity levels. The response of the system following step changes in the synchronous generator driving power at wide range of practical solar intensities has also been outlined. It has been concluded that integrating the PV generator to the synchronous generator connected to the grid can run steadily at wide range of solar irradiance levels and at wide range of synchronous generator driving torques. Figure 1 shows the configuration of the power system under study.

Biography

Mohammad S Widyan received his BSc degree in Electrical Power Engineering from Yarmouk University, Jordan in 2000 and his MSc degree in Control and Power Engineering from Jordan University of Science and Technology in 2002. From 2002 to 2003, he worked as a Lecturer in Electrical Engineering Department at The Hashemite University, Jordan. He received his PhD degree from Berlin University of Technology, Germany in 2006. Currently, he is an Associate Professor of Electrical Engineering at The Hashemite University. His fields of interest are Power System and Electrical Machine Dynamics, Bifurcation Theory and Control, Permanent-Magnet and Conventional Electrical Machine Design, Finite Element Technique and Renewable Energy Systems. He has published more than 45 papers in international peer-reviewed journals and conferences.

mohammadwidyan@yahoo.com

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Workshop

(Day 2)



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Bijon Kumar Sil
The Awesome Place, Singapore

Domestication of wind energy through integration of house-hold fan

This study relates to the generation of electricity by mini wind generator through integration and utilization of air released from house-hold fan and its recycling. The use of wind to generate electricity by wind turbine system is already established and is environmentally friendly. However a constant and uninterrupted flow of wind is one of the major challenges of this technology as it is difficult to manage natural air flow. The current invention (Singapore Patent: 10201600351U) is focused on a new technology by integrating house-hold fan with mini wind generator so that the system efficiently managed the flow of uninterrupted air, rotate blades and generate constant amount of electricity which later is stored in a power bank. This electricity is a renewable and/or recyclable either to run the mother fan or charge other electrical devices like mobiles, tablets and laptops and is called Recycle Electricity (RECEL). The prototype Model was developed using 12V-36V mini generator and 25Wh powered floor-type fan which generated around 15Wh electricity and revealed it promising commercialization. Integration of the Model with 1 billion house-hold fans (50watts/hour) (currently used world-wide) could easily generate approximately 112TWh/year (25wx15hX300days) which is more than sufficient to charge 7.1 billion smart-phones (115TWh=15wx3hx365daysx7). This new capability will add important flexibility of generation and utilization of wind power electricity in a control fashion and bring the technology at the door step of end users. The technology enabling the double uses of house-hold fan: cooling the environment and generating electricity which could provide energy to the fastest growing mobile information technology and at large for the society.

Biography

Bijon Kumar Sil has completed his PhD from University of Surrey, UK and Post-doctoral studies from Kittasato University, Japan in Immunology. He is the Director of The Awesome Place an emerging Technology based R&D company. He has published more than 30 papers in reputed journals and attended over 20 international conferences world-wide.

silkumarbijon@gmail.com

Stuiver Marian, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Combining offshore energy production in multi-use combinations: Lessons learned from Europe

Stuiver Marian
Wageningen University and Research Centre, Netherlands

The oceans of Europe are used more intensively for different types of economic activities framed as the Blue Growth potential by the European Committee. Among the proposed five clusters of economic activities, the production of renewable energy is prominent. Activities such as offshore wind farms, tidal and wave energy are developed and promoted, as well as aquaculture, tourism, blue biotechnology and mineral resources. All these ambitions call for a solution to overcome possible competing claims on the surfaces of the sea. The European Committee has promoted Multi-Use Platforms at Sea (MUPS): Locations at sea, designated for a combination of activities, either completely integrated in a platform or in shared marine space. The different businesses can benefit from each other in terms of safety, infrastructure, maintenance, etc. The development of MUPS has been studied intensively in different European projects with various stakeholders, such as H2 Ocean, Tropos, Mermaid and Maribe. In this presentation, I focus on the challenges and obstacles that have been formulated during these projects that need to be solved in order to develop MUPS. Therefore, I use a framework specifying policy, economic, social, technical, environmental and legal (PESTEL) issues connected to the development of MUPS. I will end with recommendations towards facilitating the development of MUPS in the future.

Biography

Stuiver Marian is Senior Researcher at Wageningen University and Research Centre in the Netherlands. She has ample experience in the social sciences and projects in Europe, Latin America and Africa. She has worked on projects covering a wide range of topics, e.g., design, sustainability, water, energy and food. Examples are EU integral projects Mermaid, Maspnose, Building with Nature and Knowledge for Climate in collaboration with partners from UK, Denmark, Greece, Italy and Germany. She is an internationally recognized expert with experience within international non-governmental organizations (United Nations, Commission on Sustainable Development) as well as academic communities and local governmental projects. She has a proven ability to manage complex, multi-stakeholder projects from definition through to completion. She developed a rich toolkit with methodologies to connect entrepreneurs, organizations and policymakers from different backgrounds and cultures for a common goal. She holds a PhD in Social Sciences from Wageningen University and Research Centre, Wageningen, the Netherlands, and an MSc in Agricultural Science from Wageningen University and Research Centre, Wageningen, the Netherlands.

marian.stuiver@wur.nl

Notes:

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Energy and the climate change: One counter-face

Mohi El Din Kuku Bakheet
Alzaiem Alazhari University, Sudan

Thought that likely comes to most people's minds when they hear energy and climate is that of the effects of the energy sector on climate. Fossil fuel burning plays a major role in global climate change. The relationship, however, goes in the other direction as well: Climate significantly affects energy in a variety of ways. Understanding how climate is changing, and will change in the future, together with its influence on energy source and demand, is crucial. The paper deals with types of energy: Unrenewable energy, renewable energy, solar energy, wind energy, Bioenergy, Biogas, and nuclear energy. It also aims at focusing the light on the most important roles and efficiencies of energy in achieving the goals of its adaptation with the global climate change and advantage and disadvantage of the usage of renewable energy. The paper also reflects the climate information for sustainable energy and climate information in support of energy planning. The main hypotheses of the paper are that:

- Energy is central to a song of services supporting human development, from modern medical care, transportation, information and communications to light, heating, cooking and mechanical power for agriculture.
- Equitable and sustainable development requires working energy available for all, controlling emissions and shifting to new and cleaner energy sources.

Biography

Mohi El Din Kuku Bakheet graduated from Al Azahri University, Faculty of Political Science and Strategic Studies. He is a researcher at Al Azahri University, Faculty of Political Science and Strategic Studies. He participated in Arab Federal for Library and Information (AFLI) and presented scientific papers related to Information Science and also participated in International Conference related to climate change in Nigeria, University of Yab College of Technology in April 2012, and in African Union in Tanzania, in September 2013.

mohielbakheet@hotmail.com

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Seawind 6- The complete offshore wind energy system to lower the CoE

Martin Jackubowski
Seawind Ocean Technology B.V., The Netherlands

Seawind Ocean Technology has developed a complete offshore wind energy system to bring the LCoE below 9 cents reducing CAPEX and OPEX and extending the life-time of the system to 30+ years. Seawind uses a two-bladed wind turbine head with an elastic teetering hinge, which prevents the moments coming from the rotor action reach the drive train. The drive train of the Seawind 6 only sees rotor torque, no bending moments and no gyroscopic momentum as the elastic hinge eliminates the gyroscope, which a wind turbine with a ridged rotor represents. This enables the Seawind 6 wind turbine to control the power of the turbine simply by yawing, not bypitching blades, reducing the complexity of the wind turbine. The elastic rotor coupling also reduces drastically fatigue and ultimate loads on rotor, drive train and the entire turbine structure. The Seawind 6 is designed for 25 years of lifetime and will operate 30+ years in the rough sea environment with a lifetime extension program due to very low fatigue values. The two-bladed configuration opens up assembly and installation methods, based on sinking of the entire unit at the site; rather than constructing the offshore wind turbine at sea. Installation of the system and any maintenance operation do not require heavy and costly crane vessels or jack-ups. The system is designed to allow maintenance and operation on board and has a double access: via sea and via the strong helideck for double engine helicopters mounted on the self-sustaining steel nacelle body.

Biography

Martin Jakubowski is a serial entrepreneur active in the renewable energy sector since the late 80s. He has developed, built and operated hydropower plants and onshore wind farms in several European countries and set up green energy distribution companies among which Good Energy Plcin the UK listed at the London Stock Exchange. In 2008, he installed with his long term partner Silvestro Caruso, the world's first floating wind turbine in the Italian Southern Adriatic Sea with Blue H. Since then he is developing the complete offshore wind energy system based on aproprietary two-bladed wind turbine technology.

mj@seawindtechnology.com

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Posters



Gap-Jin Han, J Fundam Renewable Energy Appl 2016, 6:4(Suppl)
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Study on characteristic analysis of generator system according to parameter variations of wind turbine

Gap-Jin Han
Dong-A University, Korea

Environmentally friendly energy resources of wind, tidal and solar power are important. It is since the latest resource depletion and the safety issues of nuclear power development. It is a change of the generator has a constant effect on the output by a change in temperature or current during operation in wind power systems. Generator driving region is determined according to the speed. If it is less than the rated speed, constant torque region and if over the rated speed, constant output region. The constant torque region is to make maximum torque with minimum current, using MTPA (Maximum Torque per Ampere) control algorithm. In the constant output region, to maintain constant DC link voltage using flux-weakening control algorithm. MTPA control and flux-weakening control is performed based on the parameter of the generator, if there is error of the parameter. It will affect the ouput characteristic of the generator system. In this paper, we analyze the characteristics of the system according to the parameters change of the wind generator. The parameters of the wind turbine was generated errors in the d -axis inductance and the q-axis inductance in order to analyze the characteristics of the MTPA curve if different parameters designed due to the environment or the measurement error. The stator resistance and the linkage flux in accordance with the varying temperature were calculated mathematically. The experimental result according to the error in the d -axis inductance and the q -axis inductance and the d -axis q -axis command current value can be seen that the difference plenty. In this paper, we analyze the output characteristic of generator in accordance with changing parameters. Output characteristic will be improved through the online parameter estimation with future research.

Biography

Gap-Jin Han has completed his BS degree in Electrical Engineering from Dong-A University, Busan, Korea, in 2015. He has a MS degree in Electrical Engineering from Dong-A University. His research interests include Flux-Weakening control and Parameter Estimation.

jlk7322@naver.com

Notes:

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Change in surface wind speed and its implication for wind energy over Taiwan simulated by WRF nested with ECHAM5/MPIOM

Chuan-Yao Lin
Academia Sinica, Taiwan

Wind power is one of the cleanest resources among various renewable energies. However, the estimation generally doesn't take into account future climate changes which may alter the pattern and strength of near surface wind speed. It is difficult and inadequate to use a global model alone for projecting future climate changes such as Taiwan, a complex geographic nature island, due to its coarse resolution. In this study, we have performed dynamic downscaling of Taiwan's climate in the recent past (1979-2003) and climate change projection for the near and distant future (2015-2039 and 2075-2099, respectively) by using the Weather Research Forecasting (WRF) model. The simulation is forced by the Max Plank Institute Hamburg, global model, ECHAM5/MPIOM. Simulation results showed close correlation between fine-resolution downscaling by WRF nested with ECHAM5/MPIOM and the actual observation data for the period 1979-2003. Furthermore, we will evaluate the wind speed change in the past and furture climate changes and discuss the development of wind energy and the potential environmental impacts in this study.

Biography

Chuan-Yao Lin has completed his PhD in 1996 from National Central University, Chongli, Taiwan. He currently serves as Research Fellow at Research Center of Envrinonmetal Changes, Academia Sinica, Taiwan. His research interests are mesoscale meteorology, regional climate changes, urbanization effects and wind energy. He has been serving as a board member of associations "Environmental Protection" and "Taiwan Group on Earth Observation" in Taiwan.

yao435@gate.sinica.edu.tw

Notes:

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Development of small wind turbine adopting folded-plate blades and testing the performance of blades with one and two straight folded lines

Churchill Saoke
Jomo Kenyatta University of Agriculture and Technology, Kenya

The world population is expected to grow some 9 billion around the year 2050. Such a rapid expansion of the population will bring increase in demand for food, water, energy and pollution of the environment. Therefore, a priority issue for 21st century is to assure enough energy and water in the developing countries needed for increasing agricultural output. Development of wind power equipment will be essential in achieving these power needs. This will require the use of "appropriate technology" to reduce cost and localize manufacture to developing countries because such technologies are perfectly applicable to the individual conditions of the people of a particular region. The main advantage of appropriate technology is that it emphasizes on; simple design using indigenous materials at low cost while operation and maintenance are practiced by local people. In this study, a five bladed wind turbine of a 600 mm rotor diameter was fabricated using a 2 mm thick aluminum curved plate that is folded at different angles from one side. Different tip lengths, root lengths, pitch angle and folded angles were varied. The blades pitch angles were changed manually and confirmed by protractor. By changing the pitch angles, the power performance of the wind turbine was tested in the wind tunnel and results obtained showed maximum power coefficient of 0.372 at a blade pitch angle of 20^o and when the two folded lines are at angles of 5^o and 10^o parallel to the forward edge.

Biography

Churchill Saoke completed his PhD from Jomo Kenyatta University of Agriculture and Technology (JKUAT) School of Physical Sciences in Kenya. He is currently a Lecturer at the Department of Physics and a counterpart Researcher for the JICA Bright project for rural electrification using renewable energy in Kenya. He has published more than 10 papers in reputed journals and has been serving as an Editorial Board Member of JAGST *(Journal of Agriculture Science and Technology)*.

msheibani@ymail.com

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Structural modeling of a horizontal axis wind turbine

Mohammad Sheibani and **Ali Akbar Akbari**
Ferdowsi Univeristy of Mashhad, Iran

This paper develops a full structural model of a horizontal axis wind turbine, including three blades, a rigid hub, a tubular tower and a rigid nacelle using beam finite element approach. The beam element model is linear with 14 DOF and arbitrary cross section that considers the rotational velocity, shear center, warping and gyroscopic effects, stiffening due to the rotation and all the structural couplings which has been already developed by the same authors and here is modified to include the transverse shear and concentrated mass effects. The blade and the tower properties are considered to be variable along each element to reduce the model size and hence the running time. Another model of the same turbine by shell elements is created in ABAQUS. To validate the accuracy of the proposed model the natural frequencies, mode shapes and the frequency and dynamic responses of the model are extracted and compared with ABAQUS results. In addition, the effects of the rotor speed and the blade pitch angle on the modal properties of the turbine are studied.

Biography

Mohammad Sheibani received the PhD degree in Mechanical Engineering from Ferdowsi University of Mashhad, Iran in 2015. He is working at Air-Sun Research Institue of Ferdowsi University in Wind Turbine Simulation and Control Section. His current interests include vibrations, dynamics and damage detection of wind turbines.

msheibani@ymail.com

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Applications of PMU in renewable energy generation

Aneesh Rajeev
Gamesa Renewable, India

The potential future applications of Phasor Measurement Units (PMU) for power system operations under high penetrations of wind and other renewable energy sources is discussed in this paper. Renewable energy sources are highly variable in nature. Similar to the conventional generating plants, outputs from these Renewable Energy Sources (RES) have impact on grid operations. The rapid penetration of RES in the grid has made the utilities to have a real time monitoring of these sources. This can be accomplished with the help of synchrophasors. Apart from real time monitoring, there are various other applications such as loss of mains protection, equivalent inertia calculation and voltage stability assessment of RES. These applications which are possible with the help of synchrophasors will be discussed in detailed in the main paper. Utilities can drastically improve their ability to operate their system dynamics with the help of real time synchrophasor data gathered from PMU's. Some of the real-time applications that can benefit from PMU deployment are: real time visualization of power systems and components, optimal state estimation, loss of mains protection, optimal allocation of static and dynamic reactive resources, real time inertia measurement, on-line transient stability assessment, voltage security assessment, coordination of line transfer capability ratings, prediction of angular and voltage instability, development of simulation tools to prevent cascading events and protection systems. Few of the most cited applications with respect to RES are briefly described in the main paper.

raneesh@gamesacorp.com

Control techniques for grid-tied two- and three-level back-to-back power converter PMSG wind turbine systems

Zhenbin Zhang
Technische Universitaet Muenchen, Germany

Installations of grid-tied wind turbine systems have seen a great increase. Configurations with full power rating back-to-back two- and three-level neutral-point clamped (NPC) power converter PMSG show many advantages in comparison with their double fed induction generator (DFIG) based counter parts. In this work, we clearly formulate the control targets for both two and three-level back-to-back power converter PMSG wind turbine systems, and investigates the actual control techniques for such system which include: (a) Cascaded control schemes with modulators, (b) direct control with look-up table, (c) direct control with modulator, and (d) predictive controller for both the generator and grid sides. All these four control classes and their control block diagrams have been clearly depicted and illustrated.

james.cheung@tum.de

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VUF improvement of an autonomous hybrid micro grid

Aarti Gupta, Dinesh Kumar Jain and **Surender Dahiya**
Deenbandhu Chhotu Ram University of Science and Technology, India

Recent studies have focussed on power quality issues of droop controlled AC microgrids. The present studies deals with power quality improvement issues of autonomous hybrid micro grids based on renewables which comprise of both AC as well as DC sub-grids An intelligent controller with power quality enhancement features using fuzzy logic is designed to control the power flow among sub grids enabling them to share the load more effectively. Improvement in THD and voltage unbalance factor is brought about by incorporating the control scheme. The system is modelled using MATLAB/SIMULINK and in the present study unbalanced loading conditions are emulated and the voltage regulation feature is extended to hybrid microgrids, which is not yet studied. The results obtained validate the efficacy of the control scheme.

aartigupta45@gmail.com

Indian offshore wind power policy and progress

S Gomathinyagam
National Institute of Wind Energy, India

Forth in the onshore installed capacity of wind power 24 GW, India certainly is cautious in offshore wind power plants off the coast of India. With 302 GW estimated onshore wind potential at 100 m level and competing solar project costs offshore wind power take-off in India needs some more time. A study by Scottish Development International (SDI) in 2011 showed good offshore wind potential 1 GW north of Gulf of Manar and 1 GW south of southern tip of India. EU, DFID/British Council, have been actively assisting the Indian Governement to trigger the first offshore project in India. NIWE has been measuring offshore wind (fetch) in the tip of Dhanuskoti. Off Gujarat coast, a L iDAR measurement is being planned under FOWIND project of EU/GWEC supported by NIWE. While most developed nations taken over a decade to commission the first offshore, with such expertise being available to India, India will shorten the lead time of the first project with the policy notified by Governement of India.

gomsluft@gmail.com

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Solar parking infrastructure for Paraguay: Technical, economic and environmental preliminary assessment

Gustavo Arturo Riveros Godoy[1] and **Davi Gabriel Lopes**[2]
[1]ITAIPU Technology Park, Paraguay
[2]Aquagenesis Institute, Brazil

Paraguay presents a very large hydroelectric capacity and a great solar energy potential, however energy demand is sustained mostly by imported hydrocarbons, especially in the transport field. At present, the country has fiscal incentives for the purchase of electric vehicles but the lack of charging infrastructure avoids the massive penetration of them. Increasing availability and accessibility of charging stations is predicted to increase acquisition of electric vehicles. Currently, a great concern in the country is related to power distribution system; therefore, introduction of electric vehicle charging points into the power system would represent an additional load. In this context, distributed generation throughout the use of solar energy may represent an interesting solution for the introduction of electric vehicles in the urban transport sector in the short time. The proposal analyzed in this paper is the installation of public solar parking lots in different points in *Ciudad del Este,* around the main green park (*Parque de la República*) of the city. For this purpose was used some tools like as Geographic Information Systems and simulation software of solar power to identify more adequate sites and sizing the stations. Finally, technical and economic assessment was performed. Additionally, emission avoided in terms of CO_2 was estimated.

gustavo.riveros@pti.org.py

Recent advances of predictive big data analytics and cyber physical systems for smart wind turbine systems

Jay Lee
University of Cincinnati, USA

In today's competitive wind energy business environment, companies are facing challenges in dealing with big data issues for rapid decision making for improved performance and asset management. Many wind turbine systems arenot ready to manage big data due to the lack of smart analytics tools. U.S. has been driving the Cyber Physical Systems (CPS) and Industrial Internet to advance future industry. It is clear that as more predictive analytics software and embedded IoT are integrated in today's industrial products and systems, predictive technologies can further intertwine intelligent algorithms to predict windturbine performance degradation and autonomously manage and optimize service needs. The presentation will address the trends of predictive big data analytics as well as the readiness of smart predictive tools to manage wind turbine big data to achieve resilient life cycle management with improved service value.

jay.lee@uc.edu

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A tutorial for wind farm intelligent prognostics and health management

Zongchang Liu, Zhe Shi and **Jay Lee**
Intelligent Maintenance Systems – University of Cincinnati, USA

The emerging wind energy market has been growing exponentially during the past decade. As the number of wind turbines increases rapidly, there are fast-growing concerns for their maintenance and health management. Prognostics of turbine performance degradation and incipient faults in critical components can thus offer improvements in availability of wind turbines by enabling predictive maintenance. Supervisory control and data acquisition (SCADA) and condition monitoring system (CMS) have been widely adopted for such purpose. This paper provides a systematic framework for data-driven health prognostics of wind turbine, together with detailed analysis for different health modeling approaches adopted to various subsystems. Degradation assessment for turbine efficiency and incipient fault detection for drivetrain components will be highlighted. A cyber-physical system architecture is further proposed to integrate data analytics, decision support, and maintenance execution to adapt to big data environment of turbine fleets. Demonstration and implementation process of the proposed system on National Instruments LabVIEW platform and Watchdog Agent® Toolkit are also provided in the case study section.

liuzc@mail.uc.edu

The role of STATCOM to power quality improvement in wind energy system integration

Nasser M Tandjaoui, Ali Haddi, Chellali Benachaiba and **Othmane Abdelkhalek**
University of Bechar, Algeria

The renewable energy plays an important role to provide electrical energy other than conventional sources. Wind power is one of the renewable energy sources used to minimize the environmental impact on conventional plant; it is one of the fastest growing sources of energy in the world. However, when the wind power is connected to an electric grid may cause problems important in terms of power quality. The effects of the power quality measurements are the active power, reactive power, variation of voltage, flicker, harmonics, and electrical behaviour of switching operations. This paper demonstrates the power quality problems due to installation of wind turbine with the grid. In this paper, we propose the importance of using STATCOM when it installed in a wind farm. Here, the STATCOM is connected at a point of common coupling to mitigate the power quality issues. Simulation studies were carried out in the MATLAB/Simulink environment to examine the performance of wind farm with and without STATCOM for improving power quality of wind farms connected to electrical network.

tanjaoui_08@yahoo.fr

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The next generation of wind innovations

Philip Totaro
Totaro & Associates, Germany

Over 11,000 innovations have been cataloged and analyzed related to horizontal-axis, utility scale wind including components, construction & installation methods, as well as O&M. This analysis includes the determination of the technology readiness level, likelihood of commercial adoption, R&D as well as commercialization costs associated with a specific technology, and lastly the cost and performance benchmarking and impact on LCOE. The blades, gearboxes, generators, and electrical systems of the wind turbines are the largest areas of focus historically, because these components represented the largest piece of turbine CapEx and they presented the greatest opportunity for LCOE reduction. Blades, drivetrain and electrical systems have also been the most problematic for turbine manufacturers and sub-component suppliers when it comes to component reliability, so they have garnered a great deal of attention and innovation to improve quality and performance. More recent trends indicate a focus on controls, foundations, construction methods, vessels, safety technology and O&M. Numerous of the fleet management technologies which are being developed in onshore will also have dual-use capability to impact offshore. Energy output optimization, remote inspection, predictive maintenance determination and scheduling will all have a profound influence on LCOE reduction below the 5 cent per kWhr threshold. Additionally, more certainty around component reliability would enable WACC reduction that would have a greater impact on wind LCOE than technology innovations to improve AEP or lower CapEx or OpEx. This aspect of innovation development will require deeper investigation along with the technology trend areas identified.

info@totaro-associates.com

Estimation of grid harmonics in the presence of renewable energy sources

Sri Niwas Singh
Indian Institute of Technology Kanpur, India

Developments in the power electronics converter technology and control methodologies have been accelerated many folds in recent years and have made possible for the renewable energy sources (RESs) interconnection to the utility grid. Penetration of RES into the electric power system is growing rapidly across the globe owing to its environment friendly and several other important characteristics. The use of power electronics devices for interconnection of RES have resulted in severe harmonics pollution. Harmonics, apart from creating problems of equipments overheating, noise and communication interference at customer end, also increase the reactive power requirement of converters, damage filter capacitances, disturb controller functioning, increase losses in cables/transformers /machines, etc., and introduce unwanted torque harmonics in the rotating machines. The estimation of harmonics has become very important for design, analysis, tariff, control and monitoring purposes. Fourier transform based harmonics analyzer are available for the measurement of harmonics spectrum, however, it suffers from many limitations. As a result, intensive research has been focused on harmonics measurement and estimation in the recent years. This presentation briefly covers some of the important techniques of power system harmonics estimation along with scope and future challenges.

snsingh@iitk.ac.in

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Encoder less finite control set-model predictive control for doubly-fed induction generators in variable speed wind turbines

Mohamed Abdelrahem, Christoph Hackl and **Ralph Kennel**
Technische Universitaet Muenchen, Germany

Doubly-fed induction generators (DFIGs) are the most commonly used generators in on-shore and off-shore applications, accounting for more than 50% of the installed wind turbines nominal capacity worldwide. DFIGs can supply active and reactive power, operate with a partial-scale power converter (around 30% of the machine rating), and achieve a certain ride through capability. Operation above and below the synchronous speed is feasible. This paper proposes an encoderless finite control set-model predictive control (FCS-MPC) strategy for douply-fed induction generators in variable-speed wind turbine systems (WTSs). The proposed MPC takes the discrete states of the voltage source converter into account and the future converter behavior is predicated for each sampling period. Then the switching action that minimizes a predefined cost function is selected to be applied in the next sampling instant. A model reference adaptive system (MRAS) observer is proposed for estimation of the DFIG rotor speed and position. Estimation and control performance of the proposed encoderless control methods are illustrated by simulation results for all operation conditions. Moreover, the performance of the proposed MRAS observer is tested under variations of the DFIG parameters.

mohamed.abdelrahem@tum.de

Planning of onshore wind farms: Issues and challenges

Sajjad Haider Shami
University of Management and Technology, Pakistan

Wind farm planning carries high importance within any wind energy harvesting scheme. Typically onshore wind farms are categorized as up to 50 MW and over 50 MW capacity. In many cases, the process begins with wind speed meaurements resulting in selection of a site followed by consultations with communities and authorities of the potential site. Location of wind turbines is optimised after detailed assessments and modelling of various parameters and often, separation distances between wind turbines and houses need to be taken into account. Selection and purchase of appropriate wind turbines and their timely installation is a key step. Factors such as proximity to railtrack, roads, rivers/streams and to power lines are important along with interference with communication lines and risks to overflying aircraft. This paper dicusses strategic planning of onshore wind farms and also lays out the associated issues and challenges. The layout of any wind farm will strongly relate to the landscape of the chosen site. Agreements with landowners are often required to agree on land usage by the proposed farm. If the chosen windy area does not have (or has poor) access then suitable roads leading up to the site need to be built.

sajjad.shami@umt.edu.pk

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Capabilities of wind turbine ground test facilities – Benefits from standardizing test methods of blade and nacelle test center around the world

Stefan Franzen
RWTH Aachen University, Germany

IEA Wind Task 35 intends to address the demand for reliable and cost-effective ground testing of wind turbines. The experts from research testing facilities, OEMs, test rig manufacturer and certification bodies work together in Task 35 to develop recommendations for standardized test methods. Several public and private blade test facilities around the world are about to harmonize blade test methods, uncertainty estimation, non-destructive inspections and subcomponent testing for the advancement of the present certification processes and to improve extant basic test procedures. The recent established nacelle test laboratories (US, DK, GB, DE, CN, ES) collaborate to develop new kinds of tests for design and model validation as well as to facilitate and improve the type certification using ground tests. An overview of blade and nacelle test center is useful for the customer to compare common and unique testing capabilities. Significant blade test criteria include maximum blade length, excitation for fatigue tests and horizontal or vertical bending techniques. Nacelle test criteria include type, maximum torque and speed of prime mover, degrees of freedom, maximum forces and bending moments of the wind load application system as well as the grid load emulation capabilities such as fault ride through scenarios and the real time emulation of grid and the wind field. In near future, both blade and nacelle test facilities shall be capable of performing the same standardized test with equivalent results at the same confidence level. The presentation gives an overview of the various nacelle and blade test capabilities, test approaches and benefits.

stefan.franzen@cwd.rwth-aachen.de

A numerical study of ducted wind turbines using actuator disc method

V V Dighe, J Tang and **G J W van Bussel**
Delft University of Technology, Netherlands

This study presents a numerical investigation of diffuser augmented wind turbines (DAWT) using wind tunnel validated Computational Fluid Dynamics (CFD). A set of experiments on the 'donQi Urban Windmill 1.5' DAWT model have been conducted in the low-speed closed-loop open-jet (OJF) wind tunnel located at the Aerodynamics Department within the Delft University of Technology. The pressure drop at the turbine location was imposed with the aid of porous mesh screen, having a porosity, p = 40% and averaged thrust co-efficient, CT = 0.84. The flow is modelled through solution of Reynolds-averaged Navier Stokes (RANS) equations; turbine is represented by an actuator disc. Flow measurements were carried using pitot-static probe in the axial and radial direction inside the duct, and dynamic pressure was recorded for different flow velocities. Using the dynamic pressure head at the screen, the pressure jump co-efficient, C2 was derived and used as an input boundary condition for the CFD model. Leading edge separation as encountered by the smoke visualization method, and was rightly captured by the CFD method. Also, the velocity measurements for the CFD data inside the duct were in good agreement with the wind tunnel measurements. More precisely, an alternative computationally less expensive method is formulated to understand and visualize the flow around the DAWT.

V.V.Dighe@tudelft.nl

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Control techniques for grid-tied two- and three-level back-to-back power converter PMSG wind turbine systems

Zhenbin Zhang
Technische Universitaet Muenchen, Germany

Installations of grid-tied wind turbine systems have seen a great increase. Configurations with full power rating back-to-back two- and three-level neutral-point clamped (NPC) power converter PMSG show many advantages in comparison with their double fed induction generator (DFIG) based counter parts. In this work, we clearly formulate the control targets for both two and three-level back-to-back power converter PMSG wind turbine systems, and investigates the actual control techniques for such system which include: (a) Cascaded control schemes with modulators, (b) direct control with look-up table, (c) direct control with modulator, and (d) predictive controller for both the generator and grid sides. All these four control classes and their control block diagrams have been clearly depicted and illustrated.

james.cheung@tum.de

Green industrial revolution

Woodrow Clark II
Clark Strategic Partners, USA

"*The Green Industrial Revolution*" (GIR) is a major paradigm changer in that it examines globally what is already one of the most transformative changes in world history. The GIR argues that countries around the world have already moved dramatically from their dependency over the last century, on carbon-based energy generation to one powered by renewable energy in order provide the means that are both economical and mitigate against climate change. While others have written about climate change and renewable energy, this book integrates the individual industrial sectors together within the context of major public policy, economic, environmental and social change, in order to grow a "green" economy in all areas of industrial development from automobiles and construction to electronics and systems which all depend on energy. Additionally, there are 18 cases from around the world about the GIR in the Appendix. Renewable energy (when including hydro-electric power from dams) currently represents little more than six percent of the world's energy generation. The GIR warns, as Clark did in two other books about the "next economics", whereby the promoters of "clean energy" need to be watched carefully, especially about when these terms are noted as "a transition" technology to renewable energy on-site power with storage for homes, buildings and communities. Clean energy and transitional periods must be defined, measured and understand with all of their 'externalities'. The GIR has already begun in other developed and developing countries around the world, to set a higher measurable standard for all nations.

wwclark13@gmail.com

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Use of clean technology to preserve environment

P N Darde
Jaipur National University, India

Sources of energy which are used on large scale are termed as conventional sources of energy and the energy sources which are used on small scale are called as non-conventional sources of energy. Green energy produced from non-conventional sources include Small hydro power, wind power, solar energy, biomass energy, bagasse energy, geothermal and energy produced from bio fuel. Increase in land and air pollution during the conversion of energy sources of fossil fuel such as oil, coal and natural gas have their adverse effects on environment and ecology. Depleting quality of these sources raise the question of sustainability in the long run there by compelled humanity to go in search of the other alternatives. In this context, the non-conventional sources of energy have attracted the global attentions and evoked interest among policy makers as a viable option for sustainable development. It is well known that the long term energy security of India is in peril. Two-third of electricity comes from fossil fuel, of which 53% is from coal, which may run out in next 50-100 years. And 78% of its oil and petroleum requirement being imported most of it from particular region of the world that is west Asia. India's per capita consumption is one fifth of world's average and roughly half of the 1.2 billion people are deprived of basic lifeline electric connections. The power supply is short of demand by at least 10% peaking to 15%. The rural areas, where 75% of the population lives, most of the population use the most primitive methods of fuel for cooking by burning wood and biomass. Villages get a raw deal in electricity distributions. Of the 600,000 villages in India, some 100,000 officially do not have access to electricity. Therefore, there is no alternative but to think of other alternative sources of energy and technology to accelerate the energy supply. Accelerated development of renewable energy is of critical importance for achieving the goal of security and energy independence. The stock of renewable and non-conventional sources of energy is abundantly available in India and in the world which needs research and development to make them commercially viable. Some of the renewable and non-conventional sources energy and their status have been put forward in this article. Such sources are small hydro, solar, wind and geothermal energy, etc. Govt. of India recently has put great emphasis on such sources of energy to light each and every house.

pndarde@rediffmail.com

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580th Conference

World Congress and Exhibition on

Wind & Renewable Energy

July 28-30, 2016 Berlin, Germany

Previous Conferences



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International Conference on
Design and Production Engineering
July 25-26, 2016 Berlin, Germany

Global Health Economics Summit
July 25-26, 2016 Berlin, Germany

2nd International Conference and Expo on
Ceramics and Composite Materials
July 25-26, 2016 Berlin, Germany

2nd World Congress and Expo on
Recycling
July 25-27, 2016 Berlin, Germany

11th Asia-Pacific Dental Congress
July 25-27, 2016 Bangkok, Thailand

5th International Conference on
Earth Science & Climate Change
July 25-27, 2016 Bangkok, Thailand

10th International Conference and Exhibition on
Nanomedicine and Nanotechnology in Health Care
July 25-27, 2016 Bangkok, Thailand

10th Asia Pacific Biotech Congress
July 25-27, 2016 Bangkok, Thailand

International Conference on
Marine Drugs & Natural Products
July 25-27, 2016 Melbourne, Australia

7th World Congress on
Molecular Pathology
July 25-27, 2016 Melbourne, Australia

2nd International Conference on
Current Trends in Mass Spectrometry
July 20-22, 2016 Chicago, USA

International Conferences on
Neuro Rehabliation
July 21-22, 2016 Brisbane, Australia

International Conference and Exhibition on
Neuro Oncology
July 21-23, 2016 Brisbane, Australia

2nd International Conference on
Livestock Nutrition
July 21-22, 2016 Brisbane, Australia

World Congress on
Petroleum & Refinery
July 21-23, 2016 Brisbane, Australia

2nd International Conference and Exhibition on
Satellite
July 21-23, 2016 Berlin, Germany

5th European Immunology Conference
July 21-23, 2016 Berlin, Germany

2nd international conference on innate immunity
July 21-22, 2016 Berlin, Germany

International Conference on
Water Microbiology and Novel Technologies
July 18-19, 2016 Chicago, USA

International Conference and Exhibition on
Dual Diagnosis
July 18-19 , 2016 Chicago, USA

8th Global Ophthalmology Meeting
July 18-20, 2016 Chicago, USA

8th Global Cardiologists and Echocardiography Annual Meeting
July 18-20, 2016 Berlin, Germany

4th European Pharma Congress
July 18-20, 2016 Berlin, Germany

4th International Conference on
Integrative Biology
July 18-20, 2016 Berlin, Germany

4th International Conference on
Oceanography and Marine Biology
July 18-20, 2016 Brisbane, Australia

3rd global geologists annual meeting
july 11-12, 2016 Brisbane, Australia

5th Asia-Pacific Summit & Expo on Healthcare
July 18-20, 2016 Brisbane, Australia

World Congress on
Cardiac Arrhythmias
July 14-15, 2016 Brisbane, Australia

International Pharmacy Conference
July 14-15, 2016 Philadelphia, USA

International Conference on Holistic Medicine and Nutrition
July 14-15, 2016 Philadelphia, USA

4th Global Acupuncture and Therapists Annual Meeting July 14-16, 2016 Philadelphia, USA

2nd International Conference on Emergency
Mental Health and Human Resilience
July 14-15, 2016 Cologne, Germany

International Conference on
Nuclear Medicine & Radiation Therapy
July 14-15, 2016 Cologne, Germany

Annual Plant Genomics Conference
July 14-15, 2016 Brisbane, Australia

International Conference on Melanoma and Carcinoma July 14-15, 2016 Brisbane, Australia

5th Global Pharmacists AnnualMeeting
July 14-16, 2016 Brisbane, Australia

2nd International Conference and Exhibition on
Antibodies July 11-12, 2016 Philadelphia, USA

Annual Conference on
Atherosclerosis and Clinical Cardiology
July 11-12, 2016 Philadelphia, USA

3rd International Conference on
Chronic Obstructive Pulmonary Disease (COPD)
July 11-12, 2016 Brisbane, Australia

International Conference on Pediatric Nursing and Healthcare
July 11-12, 2016 Cologne, Germany

10th Global Oncologists AnnualMeeting
July 11-13, 2016 Cologne, Germany

9th Euro Global Summit and Expo on
Food & Beverages
July 11-13, 2016 Cologne, Germany

10th Asia Pcific Diabetes Conference and Expo
July 11-13, 2016 Brisbane, Australia

2nd Global Summit on
Aquaculture and Fisheries
July 11-13, 2016 Kuala Lumpur, Malaysia

5th Asian Obesity Specialist and Endocrinologist AnnualMeeting July 11-13, 2016 Kuala Lumpur, Malaysia

6th Asia-Pacific Pharma Congress
July 11-13, 2016 Kuala Lumpur, Malaysia

2nd International Conference on
Retroviruses and Novel Drugs
June 30-July 01, 2016 Cape Town, South Africa

9th World Drug Delivery Summit
June 30-July 02, 2016 Valencia, Spain

Euro Biosensors and Bioelectronics Conference
June 30-July 02, 2016 Valencia, Spain

International Conference on
Spine and Spinal Disorders
June 30-July 02, 2016 Valencia, Spain

4th International Conference on
Vascular Dementia
June 30-July 02, 2016 Valencia, Spain

Euro Experts Meeting on
Medical Case Reports
June 30-July 02, 2016 Valencia, Spain

International Dairy Meet and Expo
June 29-30, 2016 New Orleans, USA

3rd International Conference on
Health Informatics and Technology
June 29-30, 2016 New Orleans, USA

2nd Global Summit on
Steroids and Hormones
June 27-29, 2016 New Orleans, USA

5th International Conference on
Agriculture & Horticulture
June 27-29, 2016 Cape Town, South Africa

5th European Biosimilars Congress
June 27-29, 2016 Valencia, Spain

International Conference on Physics
June 27-29, 2016 New Orleans, USA

International Conference on
Industrial Chemistry
June 27-28, 2016 New Orleans, USA

International Conference on
Periodontics and Prosthodontics
June 27-28, 2016 New Orleans, USA

African Pharma Congress
June 20-22, 2016 Cape Town, South Africa

7th World Nano Conference
June 20-21, 2016 Cape Town, South Africa

International Conference on
Sustainable Civil Engineering
June 20-21, 2016 Cape Town, South Africa

World Congress on
Community Nursing
June 20-21, 2016 Cape Town, South Africa

European Chemistry Congress
June 16-18, 2016 Rome, Italy

5th European Nutrition and dietetics Conference
June 16-18, 2016 Rome, Italy

10th Euro Global Summit and Expo on
Vaccines & Vaccination
June 16-18, 2016 Rome, Italy

5th International Conference of Orthopedic Surgeons and Rheumatology
June 16-17, 2016 Alicante, Spain

6th European Pathology Congress
June 16-17, 2016 Alicante, Spain

International conference on Fibromyalgia andChronic Pain
June 15-16, 2016 Philadelphia, USA

International Conference on Pediatric Gastroenterology
June 15-16, 2016 Philadelphia, USA

2nd World Congress on Automation and Robotics
June 13-15, 2016 Philadelphia, USA

5th International Conference on Family Nursing
June 13-15, 2016 Philadelphia, USA

5th World Congress on Materials Science & Engneering
June 13-15, 2016 Alicante, Spain

Cancer Diagnostics Conference & Expo
June 13-15, 2016 Rome, Italy

International Conference on
Positive Psychology & Cognitive Behavioral Therapy
June 13-14, 2016 Philadelphia, Pennsylvania, USA

7th European Dermatology Congress
June 13-14, 2016 Alicante, Spain

International Conference Food & Beverage Packaging
June 13-14, 2016 Rome, Italy

World Bioenergy Congress and Expo
June 13-14, 2016 Rome, Italy

2nd International Conference and Expo on
Novel Physiotherapies
June 9-11 2016 London, UK

International Conference on
Plant Physiology
June 9-10, 2016 Dallas, USA

8th World Medical Nanotechnology Congress & Expo
June 8-9, 2016 Dallas, USA

5th International Conference and Exhibition on
Occupational Health & Safety
June 6-7, 2016 Dallas, USA

Global Pediatric Ophthalmology Congress
June 6-7, 2016 London, UK

9th Global Diabetelogists AnnualMeeting and Medicare Expo
June 6-8, 2016 Dallas, USA

International Conference on
Food Safety and Regulatory Affairs
June 6-8, 2016 London, UK

5th International Conference and Exhibition on
Cell & Gene Therapy
May 19-21, 2016 San Antonio,USA

Experts Meeting on
Gynecologic Oncology
May 19-21, 2016 San Antonio, USA

4th International Congress on
Bacteriology and Infectious Diseases
May 16-18, 2016 San Antonio, USA

5th International Conference and Exhibition on
Metabolomics
May 16-18, 2016 Osaka, Japan

International Conference on Coastal Zones
May 16-18, 2016 Osaka,Japan

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6th Global Ophthalmologists Annual Meeting May 16-18, 2016 Osaka, Japan

5th International Conference and Exhibition on Pathology May 9-11, 2016 Chicago, USA

2nd International Conference on Hepatology May 9-11, 2016 Chicago, USA

Reinventing the Food and Beverage Indutry May 09-10, 2016 New Orleans, USA

International Conferences on Orthodontics and Dental Implants May 9-10, 2016 New Orleans, USA

Annual Meeting on Pediatric Nephrology May 9-10, 2016 New Orleans, USA

Experts Meeting on Medical Case Reports May 9-10, 2016 New Orleans, USA

6th International Conference on Clinical and experiemental dermatology May 4-6, 2016 Chicago, USA

International Conference and Expo on Musculoskeletal Regeneration May 5-6, 2016 Chicago, USA

2nd International Conference and Exhibition on Pharmacology and Ethnopharmcology May 2-4, 2016 Chicago, USA

2nd International Conference on Psychiatry and Psychiatric Disorders May 2-4, 2016 Chicago, USA

International Conference and Expo on Industrial Pharmacy April 28-29, 2016 Dubai, UAE

5th Global Pharmacovigilance Summit April 28-29, 2016 Dubai, UAE

2nd International Conference on Neurological Disorders and Stroke April 28-30, 2016 The Oberoi Dubai, Dubai, UAE

International Conference on Pollution Control & Sustainable Environment April 25-26, 2016 Dubai, UAE

Annual Congress & Medicare Expo on Primary Healthcare April 25-27, 2016 Dubai,UAE

3rd International Conference and Exhibition on Rhinology & Otology April 25-27, 2016 - The Oberoi: Dubai, UAE

5th International Conference and Expo on Cosmetology, Trichology & Aesthetic Practices April 25-27, 2016 Dubai, UAE

2nd International Conference and Business Expo on Wireless & Telecommunication April 21-22, 2016 Dubai, UAE

2nd International Conference on Geology April 21-22, 2016 Dubai, UAE

6th Global Experts Meeting on Nanomaterials and Nanotechnology April 21-23, 2016 Dubai, UAE

8th International Conference and Exhibition on Dentistry & Oral Care April 18-20, 2016 The Oberoi, Dubai, UAE

2nd International Conference on Sports Medicine and Fitness April 18-20, 2016 Dubai, UAE

4th International Conference on Blood Malignancies and Treatment April 18-19, 2016 Dubai,UAE

International Clinical Case Reports April 18-20, 2016 The Oberoi, Dubai, UAE

International Conference and Exhibition on Materials Chemistry March 31-April 01, 2016 Valencia, Spain

7th Global Dentists and Pediatric Dentistry Annual meeting March 31- April 1, 2016 Valencia, Spain

5th Global Nephrologists Annual Meeting March 31-April 02, 2016 Valencia, Spain

International Conference and Exhibition on Advances in HPLC & Chromatography Techniques March 14-15, 2016 London, UK

Annual Conference and Expo on Biomaterials March 14-16, 2016 London, UK

5th World Congress on Neurology and Therapeutics March 14-16, 2016 London, UK

International Conference on Quantum Physics and Nuclear Engineering March 14-16, 2016 London, UK

Annual Pediatric Emergency Medicine Conference March 29-31, 2016Atlanta, Georgia, USA

4th International Conference on Pediatrics March 29-31, 2016 Atlanta, Georgia, USA

6th International Conference & Expo on Proteomics March 29-31, 2016 Atlanta, Georgia, USA

5th International Conference on Biodiversity March 10-12, 2016 Madrid, Spain

World Congress on Public Health and Nutrition March 10-12, 2016 Madrid, Spain

6th Euro Virology Congress and Expo March 10-12, 2016. Madrid, Spain

Annual Congress and Medicare Expo on Trauma & Critical Care March 07-09, 2016 Madrid, Spain

8th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems March 07-09, 2016 Madrid, Spain

2nd International Conference on Smart Materials & Structures February 29-March 02, 2016 Philadelphia, Pennsylvania, USA

6th World Congress on Cell & Stem Cell Research February 29-March 02, 2016 Philadelphia, Pennsylvania, USA

International Conference on Thyroid Disorders and Treatment February 29-March 01, 2016 Philadelphia, Pennsylvania, USA

3rd International Conference on Clinical Pharmacy December 07-09, 2015 Atlanta, USA

5th World Congress on Virology December 07-09, 2015 Atlanta, USA

4th International Conference and Exhibition on Obesity and Weight Management December 07-09, 2015 Atlanta, USA

International conference and exhibition on Cosmetic Dermatology and Hair Care December 07-09, 2015 Philadelphia, USA

2nd International Conference on Big data analysis and Data Mining Nov 30-Dec 02, 2015 Atlanta, USA

2nd International Conference on Significant Advances in Biomedical Engineering Nov 30-Dec 02, 2015 Atlanta, USA

6th International Conference on Clinical & Experimental Cardiology Nov 30-Dec 02, 2015 Atlanta, USA

Global Summit and Medicare Expo on Head & Neck Surgery Nov 30-Dec 02, 2015 Atlanta, USA

3rd International Conference on HIV/AIDS, STDs, & STIs Nov 30-Dec 02, 2015 Atlanta, USA

3rd World Congress on Petrochemistry and Chemical Engineering Nov 30-Dec 02, 2015 Atlanta, USA

International Conference on Lipid Science & Technology Nov 30-Dec 02, 2015 San Francisco, USA

9th Global Summit and Expo on Vaccines & Vaccination Nov 30-Dec 02, 2015 San Francisco, USA

6th Indian Dental Congress Nov 23-25, 2015 Bangalore, India

7th Indo Global Diabetes Summit and Medicare Expo Nov 23-25, 2015 Bangalore, India

Oil & Gas Expo Nov 16-18, 2015 Dubai, UAE

World Congress and Exhibition on Construction and Steel Structure Nov 16-18, 2015 Dubai, UAE

2nd International Conference Exhibition on Industrial Engineering Nov 16-18, 2015 Dubai, UAE

Polycystic Ovarian Syndrome Awareness Association Nov 16-18, 2015 Seattle, USA

5th International Conference on Nanotek and Expo Nov 16-18, 2015 San Antonio, USA

4th International Conference & Exhibition on Biometrics & Biostatistics Nov 16-18, 2015 San Antonio, USA

Global Summit and Expo on Dubai Healthcare Nov 9-11, 2015 Dubai, UAE

Global Summit on Electronics and Electrical Engineering Nov 3-5, 2015 Valencia, Spain

8th Euro Global Summit on Cancer Therapy Nov 3-5, 2015 Valencia, Spain

4th International Conference and Exhibition on Probiotics and Functional Foods Nov 3-5, 2015 Valencia, Spain

8th Euro Global Diabetes Summit and Medicare Expo Nov 3-5, 2015 Valencia, Spain

Internatioanl Conference on Advertising and Marketing Nov 3-4, 2015 Valencia, Spain

World Bio Summit & Expo Nov 2-4, 2015 Dubai, UAE

Pharma Middle East Nov 2-4, 2015 Dubai, UAE

6th Global Diabetes Summit and Medicare Expo Dubai Nov 2-4, 2015 Dubai, UAE

5th Indo Global Summit on Cancer Therapy Nov 2-4, 2015 Hyderabad, India

3rd International Conference on Hematology & Blood Disorders Nov 2-4, 2015 Atlanta, USA

3rd International Conference on Endocrinology Nov 2-4, 2015 Atlanta, USA

4th International Conference on Medicinal Chemistry & Computer Aided Drug Designing Nov 2-4, 2015 Atlanta, USA

Indo Global Summit and Expo on Veterinary October 26-28, 2015 Hyderabad, India

4th International Summit on GMP, GCP & Quality Control October 26-28, 2015 Hyderabad , India

3rd International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products October 26-28, 2015 Hyderabad, India

4th International Conference and Exhibition on Nutrition October 26-28, 2015 Chicago, USA

International Conference on Protein Engineering October 26-28, 2015 Chicago, USA

Global Summit on Herbals October 26-27, 2015 Chicago, USA

4th International Conference on Translational Medicine October 26-28, 2015 Baltimore, USA

4th International Conference on Orthopedics & Rheumatology October 26-28, 2015 Baltimore, USA

4th International Conference and Exhibition on Biologics and Biosimilars October 26-28, 2015 Baltimore, USA

Indo Global Summit and Expo on Food & Bevarages October 08-10 New Delhi, India

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Pharmaceutical Summit & Expo
October 08-10 New Delhi, India

Indo Global Summit and Expo on
Healthcare October 05-07 New Delhi, India

6th World Congress on Biotechnology
October 05-07 New Delhi, India

5th American Dental Congress
October 05-07 Philadelphia, USA

4th International Conference on
Clinical Microbiology & Microbial Genomics
October 05-07 Philadelphia, USA

4th International Conference on Nursing & Healthcare
October 05-07 Philadelphia, USA

3rd International Conference and Exhibition on
Mechanical & Aerospace Engineering
October 05-07 San Francisco, USA

4th International Conference and Exhibition on
Surgery
October 05-07 Dubai, UAE

7th Dubai Global Summit
Cancer thearpy
October 05-07 Dubai, UAE

4th International Conference and Exhibition on Immunology
Sep28-30, 2015 Houston, USA

Internatioanl Conference on Synthetic Biology
Sep28-30, 2015 Houston, USA

International Conference on
Adolescent Medicine & Child Psychology
Sep28-30, 2015 Houston, USA

5thWorld Congress on Cancer Therapy
Sep28-30, 2015 Atlanta, USA

4th International Conference on
Forensic Research & Technology
Sep28-30, 2015 Atlanta, USA

4th International Conference and Exhibition on
Biosensors & Bioelectronics
Sep28-30, 2015 Atlanta, USA

5th Dubai Global Summit and Expo on Vaccines & Vaccination
Sep28-30, 2015 Dubai, UAE

International Conference and Expo on
Biopharmaceutics
Sep21-23, 2015 Baltimore, USA

International Conference and Business Expo on
Wireless Communication & Network
Sep21-23, 2015 Baltimore, USA

International Conference on
Epilepsy & Treatment
Sep21-22, 2015 Baltimore, USA

World Congress and Expo on Medical Devices
Sep21-23, 2015 Florida, USA

International Conference on Green Energy & Expo
Sep21-23, 2015 Florida, USA

2nd International Conference and Expo on
Computer Graphics & Animation
Sep21-22, 2015 Florida, USA

3rd International Conference on
Genomics & Pharmacogenomics
Sep21-23, 2015 San Antonio, USA

International Conference on Plant Biology
Sep21-23, 2015 San Antonio, USA

2nd International Conference on
Past and Present Research Systems of Green Chemistry
Sep14-16, 2015 Florida, USA

4th International conference and Exhibition on
Materials Science and Engineering
Sep14-16, 2015 Florida, USA

International Conference on
Targeting Diabetes and Novel Therapeutics
Sep14-16, 2015 Las Vegas, USA

World congress and Exhibition on Antibiotics
Sep14-16, 2015 Las Vegas, USA

4th International Conference on
Nephrology & Therapeutics
Sep14-16, 2015 Baltimore, USA

3rd International Conference on
Bioprocess and Engineering
Sep14-16, 2015 Baltimore, USA

5th International Conference on
Proteomics & Bioinformatics
September 01-03, 2015 Valencia, Spain

International Conference and Exhibition on
Automobile Engineering
September 01-03, 2015 Valencia, Spain

6th International Conference and Exhibition on
Analytical & Bioanalytical Techniques
September 01-03, 2015 Valencia, Spain

3rd International Conference on
Predictive, Preventive and Personalized Medicine & Molecular Diagnostics September 01-03, 2015 Valencia, Spain

Euro Women Healthcare & Fitness Summit
September 01-03, 2015 Valencia, Spain

3rd International Conference and Exhibition on
Lasers, Optics & Photonics
September 01-03, 2015 Valencia, Spain

3rd International Conference on
Alzheimer's Disease & Dementia
Aug 31–Sep 02, 2015 Toronto, Canada

6th International Conference on
Biomarkers & Clinical Research
Aug 31–Sep 02, 2015 Toronto, Canada

International Conference on Cytopathology
Aug 31–Sep 02, 2015 Toronto, Canada

International Conference on Palliative Care
Aug 31-Sep2, 2015 Florida, USA

American Veterinary Congress
Aug 31-Sep2, 2015 Florida, USA

9th American Biotechnology Congress
Aug 31-Sep2, 2015 Florida, USA

World Congress on Beneficial Microbes: Food Pharma, Aqua & Beverages Industry
Aug 25-27, 2015Valencia, Spain

International Conference and Exhibition on
Pediatric Cardiology
Aug 25-27, 2015 Valencia, Spain

International Congress and Expo on
Biofuels & Bioenergy
Aug 25-27, 2015 Valencia, Spain

European Pharma Congress
Aug 25-27, 2015Valencia, Spain

International Conference and Exhibition on
Gastrointestinal Therapeutics
Aug 25-27, 2015Valencia, Spain

International Conference on
Toxicogenomics and Drug Monitoring
Aug 25-27, 2015Valencia, Spain

4th Global Summit on
Toxicology
Aug 24-26, 2015Philadelphia, USA

International Conference on
Parasitology
Aug 24-26, 2015Philadelphia, USA

World Congress on
Pregnancy Summit
Aug 24-26, 2015Philadelphia, USA

2nd International Conference on
Geriatrics & Gerontology
Aug 24-26, 2015 Toronto, Canada

4th International Conference and Exhibition on
Occupational Health & Safety
Aug 24-25, 2015 Toronto, Canada

3rd International Conference on
Radiology and Imaging
Aug 24-26, 2015 Toronto, Canada"

International Conference and Exhibition on
Molecular Medicine and Dignostics
Aug 24-26, 2015London, UK

International Conference on
Influenza
Aug 24-26, 2015London, UK

International Conference on
Brain Disorders and Therapeutics
Aug 24-26, 2015London, UK

8th Euro Biotechnology Congress
Aug 18-20, 2015 Frankfurt, Germany

Euro Global Summit & Medicare Expo on
Surgical Weight loss
Aug 18-20, 2015 Frankfurt, Germany

World Congress and Expo on
Applied Microbiology
Aug 18-20, 2015 Frankfurt, Germany

8th Euro Biotechnology Congress
Aug 18-20, 2015 Frankfurt, Germany

Euro Global Summit & Medicare Expo on
Surgical Weight loss
Aug 18-20, 2015 Frankfurt, Germany

World Congress and Expo on
Applied Microbiology
Aug 18-20, 2015 Frankfurt, Germany

International Conference and Expo on
Audiology and Hearing Devices
Aug 17-18, 2015 Birmingham, UK

International Conference on
Food Safety & Regulatory Measures
Aug 17-19, 2015 Birmingham, UK

5th Euro Global summit and Expo on
Vaccines & Vaccination
Aug 17-19, 2015 Birmingham, UK

6th World Congress on Bioavailability & Bioequivalence: BA/BE Studies Summit Aug 17-19, 2015 Chicago, USA

International Conferenceand Expo on Novel Physiotherapies
Aug 17-19, 2015 Chicago, USA

International Conference and Expo on
Ceramics
Aug 17-18, 2015 Chicago, USA

Interenational Conference and Expo on
Parenterals & Injectables
Aug 17-19, 2015 Chicago, USA

International Conference and Exhibition on
Satellite
Aug 17-19, 2015 Houston, USA

Global Summit on
Telemedicine Technologies
Aug 17-19, 2015 Houston, USA

World Drug Delivery Summit
Aug 17-19, 2015 Houston, USA

International Conference and Expo on
Audiology and Hearing Devices
Aug 17-18, 2015 Birmingham, UK

International Conference on
Food Safety & Regulatory Measures
Aug 17-19, 2015 Birmingham, UK

5th Euro Global summit and Expo on
Vaccines & Vaccination Aug 17-19, 2015 Birmingham, UK

International Conference on
Parkinsons Disease and Moment Disorder
Aug 11-13, 2015 Frankfurt, Germany

International Conference on Live Stock Nutrition
Aug 11-13, 2015 Frankfurt, Germany

Nanotechnology Congress & Expo
Aug 11-13, 2015 Frankfurt, Germany

International Conference and Expo on
Drug Discovery & Designing
Aug 11-13, 2015 Frankfurt, Germany

Glycobiology World Congress
Aug 10-12, 2015 Philadelphia, USA

Global Cloud Computing Conference
Aug 10-12, 2015 Philadelphia, USA

American Pharma Congress
Aug 10-12, 2015 Philadelphia, USA

Global summit and Expo on
Multimedia & Applications
Aug 10-11, 2015 Birmingham, UK

Industrial Biotechnology Congress
Aug 10-12, 2015 Birmingham, UK

International Conference and Exhibition on Antibodies
Aug 10-12, 2015 Birmingham, UK

4th International Conference and Exhibition on
Food Processing and Technology
Aug 10-12, 2015 London, UK

World Congress on
Infectious Diseases
Aug 10-12, 2015 London, UK

conferenceseries LLC Previous Conferences

4th International Conference and Exhibition on Pharmacovigilance & Clinical Trials
Aug 10-12, 2015 London, UK

4th International Conference and Exhibition on Cell & Gene Therapy
Aug 10-12, 2015 London, UK

International Conference and Expo on Separation Techniques
Aug 10-12, 2015 San Francisco, USA

International Conference and Exhibition on Biopolymers and Bioplastics
Aug 10-12, 2015 San Francisco, USA

Annual Summit on Sleep Disorders and Medicine
Aug 10-12, 2015 San Francisco, USA

International Conference on Parkinsons Disease and Moment Disorder
Aug 11-13, 2015 Frankfurt, Germany

International Conference on Live Stock Nutrition
Aug 11-13, 2015 Frankfurt, Germany

Nanotechnology Congress & Expo
Aug 11-13, 2015 Frankfurt, Germany

International Conference and Expo on Drug Discovery & Designing
Aug 11-13, 2015 Frankfurt, Germany

Glycobiology World Congress
Aug 10-12, 2015 Philadelphia, USA

Industrial Biotechnology Congress
Aug 10-12, 2015 Birmingham, UK

4th International Conference and Exhibition on Cell & Gene Therapy
Aug 10-12, 2015 London, UK

4th International Conference and Exhibition on Food Processing and Technology
Aug 10-12, 2015 London, UK

International Conference and Exhibition on Biopolymers and Bioplastics
Aug 10-12,2015 San Francisco, USA

International Conference and Exhibition on Antibodies
Aug 10-12, 2015 Birmingham, UK

World Congress on Infectious Diseases
Aug 10-12, 2015 London, UK

Global Summit and Expo on Multimedia & Applications
Aug 10-11, 2015 Birmingham, UK

Annual Summit on Sleep Disorders and Medicine
Aug 10-12, 2015 San Francisco, USA

4th International Conference and Exhibition on Pharmacovigilance & Clinical Trials
Aug 10-12, 2015 London, UK

International Conference and Expo on Separation Techniques
Aug 10-12, 2015 San Francisco, USA

American Pharma Congress
Aug 10-12, 2015 Philadelphia, USA

3rd International Conference on Integrative Biology
Aug 4-6, 2015 Valencia, Spain

3rd International Congress on Bacteriology and Infectious Diseases
Aug 4-6, 2015 Valencia, Spain

3rd International Conference on Epidemiology & Emerging Diseases
Aug 4-6, 2015 Valencia, Spain

5th International Conference on Clinical & Experimental Ophthalmology
Aug 4-6, 2015 Valencia, Spain

3rd International Conference on Integrative Biology
Aug 4-6, 2015 Valencia, Spain

3rd International Congress on Bacteriology and Infectious Diseases
Aug 4-6, 2015 Valencia, Spain

3rd International Conference on Epidemiology & Emerging Diseases
Aug 4-6, 2015 Valencia, Spain

5th International Conference on Clinical & Experimental Ophthalmology
Aug 4-6, 2015 Valencia, Spain

4th International Conference on Tissue Science and Regenerative Medicine
July 27-29, 2015 Rome, Italy

International Conference and Exhibition on Clinical Trials
July 27-29, 2015 Orlando-FL, USA

International Conference on Transcriptomics
July 27-29, 2015 Orlando-FL, USA

5th Global Summit and Expo on Vaccines & Vaccination
July 27-29, 2015 Brisbane, Australia

4th Asia Pacific Congress & Expo on Dental and Oral Health
July 27-29, 2015 Brisbane, Australia

International Conference and Expo on Biomechanics & Implant design
July 27-29, 2015 Orlando-FL, USA

2nd International Conference on Health Informatics and Technology
July 27-29, 2015 Valencia, Spain

3rd International Conference and Exhibition on Neurology & Therapeutics
July 27-29, 2015 Rome, Italy

3rd Euro Nursing & Medicare Summit
July 27-29, 2015 Valencia, Spain

World Congress on Hepatitis
July 20-22, 2015 Orlando-FL, USA

Conference and Trade Fair on Laser Technology
July 20-22, 2015 Orlando-FL, USA

4th International Conference on Gastroenterology
July 20-22, 2015 Orlando-FL, USA

International Congress on Neuroimmunology & Therapeutics
July 20-22, 2015 San Francisco, USA

World Congress on Industrial Automation
July 20-22, 2015 San Francisco, USA

American Women Healthcare & Fitness Summit
July 20-22, 2015 San Francisco, USA

World Congress and Expo on Recycling
July 20-22, 2015 Barcelona, Spain

International Conference on Innate Immunity
July 20-21, 2015 Barcelona, Spain

International Conference on Tissue preservation and Bio-banking
July 20-22, 2015 Barcelona, Spain

4th International Conference on Urology
July 20-22, 2015 Barcelona, Spain

Euro Global Summit and Medicare Expo on Psychiatry
July 20-22, 2015 Barcelona, Spain

International Conference on Aquaculture and Fisheries
July 20-22, 2015 Brisbane, Australia

Global Summit & Medicare Expo on Surgical Weight loss
July 20-22, 2015 Brisbane, Australia

5th Asiapacific Summit on Cancer Therapy
July 20-22, 2015 Brisbane, Australia

World Congress on Pharmacology
July 20-22, 2015 Brisbane, Australia

4th International Conference on Agriculture & Horticulture
July 13-15, 2015 Beijing, China

4th International Conference and Exhibition on Pathology
July 13-15, 2015 New Orleans, USA

5th International Conference on Clinical & Experimental Dermatology
July 13-15, 2015 New Orleans, USA

Global Summit on Steroids
July 13-15, 2015 Baltimore, USA

7th Asia Pacific Biotech Congress
July 13-15, 2015 Beijing, China

International Conference on Weight Loss and Fitness Expo
July 13-15, 2015 Philadelphia, USA

International Conference and Exhibition on Lung disorders & Therapeutic
July 13-15, 2015 Baltimore, USA

International Conference on Eye Disorders and Treatment
July 13-15, 2015 Baltimore, USA

Stress Management Summit
July 13-15, 2015 Philadelphia, USA

World Nutraceutical Conference and Expo
July 13-15, 2015 Philadelphia, USA

International Summit on Current Trends in Mass Spectrometry
July 13-15, 2015 New Orleans, USA

International Conference and Exhibition on Mesoscopic & Condensed Matter Physics
June 22-24, 2015 Boston, USA

4th International Conference and Expo on Cosmetology and Trichology
June 22-24, 2015 Philadelphia, USA

3rd International Conference on Oceanography
June 22-24, 2015 Philadelphia, USA

International Conference on Geology
June 22-23, 2015 Orlando-FL, USA

International Conference on Prostate Cancer
June 22-24, 2015 Orlando-FL, USA

Euro Global Summit and Expo on Food & Beverages
June 16-18, 2015 Alicante, Spain

3rd Euro Congress and Expo on Dental & Oral Health
June 16-18, 2015 Alicante, Spain

4th International Conference on Earth Science & Climate Change
June 16-18, 2015 Alicante, Spain

4th International Conference on Biodiversity June 15-17, 2015 Las Vegas, USA

Annual International Conference on Fostering Human Resilience
June 15-17, 2015 Las Vegas, USA

International Conference and Expo on Smart Materials & Structures
June 15-17, 2015 Las Vegas, USA

International Conference on Retroviruses & Novel Drugs
June 08-10, 2015 Chicago, USA

International Conference and Exhibition on Pain Medicine
June 08-10, 2015 Chicago, USA

International Conference on Flu
June 08-10, 2015 Chicago, USA

3rd International Conference on Pediatrics
May 18-20, 2015 San Antonio, USA

3rd International Conference and Exhibition on Physical Medicine & Rehabilitation
May 18-20, 2015 San Antonio, USA

International Conference on Big Data Analysis and Data Mining
May 04-06, 2015 Lexington, USA

International Conference on Significant Advances in Biomedical Engineering
April 27-29, 2015 Philadelphia, USA

5th International Conference on Clinical & Experimental Cardiology April 27-29, 2015 Philadelphia, USA

4th International Conference and Exhibition on Metabolomics & Systems Biology
April 27-29, 2015 Philadelphia, USA

5th World Congress on Cell & Stem Cell Research
March 23-25, 2015 Chicago, USA

International Conference on Sports Medicine and Fitness
March 23-25, 2015 Chicago, USA

International Conference and Exhibition on Dentistry
March 18-20, 2015 Crowne Plaza, Dubai, UAE

conferenceseries LLC Previous Conferences

2nd International Conference and Exhibition on Rhinology and Otology March 18-20, 2015 Crowne Plaza, Dubai, UAE

5th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems March 16-18, 2015 Crowne Plaza, Dubai, UAE

3rd International Conference on Medicinal Chemistry & Computer Aided Drug Designing December 08-10, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

2nd International Summit on Clinical Pharmacy December 02-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

3rd International Conference and Exhibition on Obesity & Weight Management December 01-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

4th International Conference on Nanotek & Expo December 01-03, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

2nd International Congress on Bacteriology & Infectious Diseases Nov 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

2nd International Conference on Nursing & Healthcare Nov 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

3rd International Conference on Surgery and Anesthesia Nov 17-19, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

5th World Congress on Diabetes & Metabolism Nov 03-05, 2014 Embassy Suites Las Vegas, USA

2nd International Conference on Predictive, Preventive, Personalized Medicine & Molecular Diagnostics Nov 03-05, 2014 Embassy Suites Las Vegas, USA

3rd International Conference on Translational Medicine Nov 03-05, 2014 Embassy Suites Las Vegas, USA

3rd International Conference and Exhibition on Biowaivers, Biologics and Biosimilars October 27-29, 2014 Hyderabad International Convention Centre, India

3rd International Conference and Exhibition on Pharmacovigilance & Clinical Trials October 27-29, 2014 Hyderabad International Convention Centre, India

3rd International Conference on Agriculture & Horticulture October 27-29, 2014 Hyderabad International Convention Centre, India

2nd World Congress on Petrochemistry and Chemical Engineering October 27-29, 2014 Embassy Suites Las Vegas, USA

2nd International Conference on HIV/AIDS, STDs & STIs October 27-29, 2014 Embassy Suites Las Vegas, USA

3rd International Conference and Exhibition on Cell & Gene Therapy October 27-29, 2014 Embassy Suites Las Vegas, USA

3rd International Conference and Exhibition on Biometrics & Biostatistics October 20-22, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

International Conference on Broadcasting Media & Film Industry October 20, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

Health Informatics & Technology Conference October 20-22, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

4th World Congress on Cancer Science & Therapy October 20-22, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

3rd International Summit on Toxicology & Applied Pharmacology October 20-22, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

2nd World Congress on Endocrinology October 20-22, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

4th World Congress on Virology October 06-08, 2014 Hilton San Antonio Airport, USA

3rd International Conference on Forensic Research & Technology October 06-08, 2014 Hilton San Antonio Airport, USA

3rd International Conference and Exhibition on Materials Science & Engineering October 06-08, 2014 Hilton San Antonio Airport, USA

3rd International Conference on Clinical & Cellular Immunology September 29-October 01, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

5th World Congress on Bioavailability & Bioequivalence: Pharmaceutical R&D Summit September 29-October 01, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

2nd International Conference on Hematology & Blood Disorders September 29-October 01, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

3rd International Summit on GMP, GCP & Quality Control September 25-26, 2014 Valencia Convention Centre, Spain

3rd International Conference on Tissue Science & Regenerative Medicine September 24-26, 2014 Valencia Convention Centre, Spain

4th International Conference on Vaccines & Vaccination September 24-26, 2014 Valencia Convention Centre, Spain

3rd International Conference on Clinical Microbiology & Microbial Genomics September 24-26, 2014 Valencia Convention Centre, Spain

3rd International Conference and Exhibition on Probiotics, Functional & Baby Foods September 22-24, 2014 Hotel Royal Continental, Naples, Italy

2nd International Conference on Alzheimer's Disease and Dementia September 23-25, 2014 Valencia Convention Centre, Spain

3rd International Conference and Exhibition on Nutrition & Food Sciences September 23-25, 2014 Valencia Convention Centre, Spain

3rd International Conference on Hydrology & Meteorology September 15-16, 2014 Hyderabad International Convention Centre, India

Global Cancer Conference & Medicare Summit September 15-17, 2014 Hyderabad International Convention Centre, India

2nd International Conference on Animal & Dairy Sciences September 15-17, 2014 Hyderabad International Convention Centre, India

4th International Conference on Pharmaceutical Regulatory Affairs September 08-10, 2014 DoubleTree by Hilton Hotel Raleigh-Brownstone-University, USA

2nd International Conference on Genomics & Pharmacogenomics September 08-10, 2014 DoubleTree by Hilton Hotel Raleigh-Brownstone-University, USA

2nd International Conference and Exhibition on Lasers, Optics and Photonics September 08-10, 2014 Hilton Philadelphia Airport, USA

2nd International Conference and Exhibition on Mechanical & Aerospace Engineering September 08-10, 2014 Hilton Philadelphia Airport, USA

3rd International Conference and Exhibition on Neurology & Therapeutics September 08-10, 2014 Hilton Philadelphia Airport, USA

2nd International Conference and Exhibition on Traditional & Alternative Medicine August 25-26, 2014 DoubleTree by Hilton Beijing, China

2nd International Conference and Exhibition on Pharmacognosy, Phytochemistry & Natural Products August 25-27, 2014 DoubleTree by Hilton Beijing, China

World Summit on The Past and Present Research Systems of Green Chemistry August 25-27, 2014 Hilton Philadelphia Airport, Philadelphia, USA

2nd International Conference on Epidemiology & Evolutionary Genetics August 18-19, 2014 DoubleTree by Hilton Beijing, China

5th International Conference and Exhibition on Analytical & Bioanalytical Techniques August 18-20, 2014 DoubleTree by Hilton Beijing, Chinaw

3rd International Conference and Exhibition on Biosensors & Bioelectronics August 11-13, 2014 Hilton San Antonio Airport, San Antonio, USA

2nd International Integrative Biology Summit August 04-06, 2014 Hilton Chicago/Northbrook, Chicago, USA

3rd International Conference and Exhibition on Addiction Research & Therapy August 04-06, 2014 Hilton Chicago/Northbrook, Chicago, USA

4th International Conference on Proteomics & Bioinformatics August 04-06, 2014 Hilton Chicago/Northbrook, Chicago, USA

3rd International Conference and Exhibition on Orthopedics & Rheumatology July 28-30, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

3rd International Conference on Earth Science & Climate Change July 28-30, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

3rd International Conference on Gastroenterology & Urology July 28-30, 2014 DoubleTree by Hilton Hotel San Francisco Airport, USA

2nd International Conference on Oceanography July 21-23, 2014 Hampton Inn Tropicana, Las Vegas, USA

3rd International Conference and Exhibition on Food Processing & Technology July 21-23, 2014 Hampton Inn Tropicana, Las Vegas, USA

3rd International Conference and Exhibition on Cosmetology & Trichology July 21-23, 2014 Hampton Inn Tropicana, Las Vegas, USA

2nd International Conference and Exhibition on Physical Medicine & Rehabilitation July 14-16, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

4th International Conference on Clinical & Experimental Ophthalmology July 14-16, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA

International Conference on Computer Graphics and Media Design July 08-10, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

International Conference on Women's Health, Gynecology and Obstetrics July 08-10, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

International Conferences on Gerontology and Geriatrics July 08-10, 2014 DoubleTree by Hilton Hotel Chicago-North Shore Conference Center, USA

2nd International Conference on Bioprocess and Engineering June 26-27, 2014 Valencia Conference Centre, Spain

3rd International Conference on Nephrology & Therapeutics June 26-27, 2014 Valencia Conference Centre, Spain

5th World Congress on Biotechnology June 25-27, 2014 Valencia Conference Centre, Spain

3rd International Conference and Exhibition on Occupational Health & Safety June 24-25, 2014 Valencia Conference Centre, Spain

3rd International Conference on Biodiversity & Sustainable Energy Development June 24-26, 2014 Valencia Conference Centre, Spain

4th World Congress on Cell Science & Stem Cell Research June 2vv4-26, 2014 Valencia Conference Centre, Spain

2nd International Conference on Dental & Oral Health April 21-23, 2014 Crowne Plaza Dubai, UAE

5th International Conference on Biomarkers & Clinical Research April 15-17, 2014 St.Hilda's College - University of Oxford, UK

3rd International Conference and Exhibition on Pathology April 14-16, 2014 Hilton San Antonio Airport, TX, USA

4th International Conference on Clinical & Experimental Dermatology April 14-16, 2014 Hilton San Antonio Airport, TX, USA

4th International Conference on Clinical & Experimental Cardiology April 14-16, 2014 Hilton San Antonio Airport, TX, USA

3rd International Conference and Exhibition on Metabolomics & Systems Biology March 24-26, 2014 Hilton San Antonio Airport, TX, USA

4th International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems March 24-26, 2014 Hilton San Antonio Airport, TX, USA

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2nd International Conference on Agricultural & Horticultural Sciences February 03-05, 2014 Radisson Blu Plaza Hotel, Hyderabad, India

International Conference on Traditional & Alternative Medicine December 09-11, 2013 Radisson Blu Plaza Hotel, Hyderabad, India

2nd International Conference and Exhibition on Obesity & Weight Management December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

3rd International Conference on Nanotek & Expo December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Conference on Nursing & Emergency Medicine December 02-04, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

3rd International Conference on Cell Science & Stem Cell Research Nov 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

International Congress on Bacteriology & Infectious Diseases Nov 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

3rd World Congress on Virology Nov 20-22, 2013 DoubleTree by Hilton Baltimore-BWI Airport, MD, USA

World Congress on Petrochemistry and Chemical Engineering Nov 18-20, 2013 Hilton San Antonio Airport, TX, USA

International Summit on Clinical Pharmacy & Dispensing Nov 18-20, 2013 Hilton San Antonio Airport, TX, USA

2nd International Conference and Exhibition on Pharmacovigilance & Clinical Trials Nov 18-19, 2013 Hilton San Antonio Airport, TX, USA

2nd International Conference and Exhibition on Cosmetology & Trichology Nov 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

International Conference on Functional and Comparative Genomics & Pharmacogenomics Nov 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

2nd International Summit on GMP, GCP & Quality Control Nov 12-14, 2013 DoubleTree by Hilton Hotel Chicago-North Shore, IL, USA

International Conference on Fermentation Technology, Bioprocess & Cell Culture October 28-30, 2013 Kansas City Marriott Country Club Plaza, USA

2nd International Conference and Exhibition on Food Processing & Technology October 28-30, 2013 Kansas City Marriott Country Club Plaza, USA

International Conference on HIV/AIDS, STDs & STIs October 24-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference and Exhibition on Probiotics & Functional Foods October 23-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference and Exhibition on Cell & Gene Therapy October 23-25, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference & Exhibition on Pharmacognosy, Phytochemistry & Natural Products October 21-23, 2013 Radisson Blu Plaza Hotel, Hyderabad, India

3rd International Conference on Pharmaceutical Regulatory Affairs October 21-23, 2013 DoubleTree by Hilton Hotel San Francisco Airport, CA, USA

3rd World Congress on Cancer Science & Therapy October 21-23, 2013 DoubleTree by Hilton Hotel San Francisco Airport, CA, USA

4th International Conference and Exhibition on Analytical & Bioanalytical Techniques October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on Medicinal Chemistry & Computer Aided Drug Designing October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on Clinical & Cellular Immunology October 15-17, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Summit on Toxicology October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on Forensic Research & Technology October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference and Exhibition on Materials Science & Engineering October 07-09, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Conference and Exhibition on Lasers, Optics & Photonics October 07-09, 2013 Hilton San Antonio Airport, TX, USA

International Conference and Exhibition on Biochemical & Molecular Engineering October 07-09, 2013 Hilton San Antonio Airport, TX, USA

International Conference and Exhibition on Mechanical & Aerospace Engineering September 30-October 02, 2013 Hilton San Antonio Airport, TX, USA

International Conference on Psychology, Autism and Alzheimer's Disease September 30-October 01, 2013 Hilton San Antonio Airport, TX, USA

International Conference on Hematology & Blood Disorders September 23-25, 2013 DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, USA

4th World Congress on Biotechnology September 23-25, 2013 DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, USA

2nd International Conference and Exhibition on Biowaivers & Biosimilars September 23-25, 2013 DoubleTree by Hilton Hotel Raleigh-Durham Airport at RTP, NC, USA

2nd International Conference on Clinical Microbiology & Microbial Genomics September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

2nd International Conference on Surgery & Anesthesia September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

International Symposia on Entomology September 04-06, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on Omics Studies September 04-06, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

2nd International Conference on Hydrology & Groundwater Expo August 26-27, 2013 DoubleTree by Hilton, Raleigh, NC, USA

2nd International Conference on Tissue Science & Regenerative Medicine August 26-28, 2013 DoubleTree by Hilton, Raleigh, NC, USA

World Congress on Endocrinology August 26-28, 2013 DoubleTree by Hilton, Raleigh, NC, USA

2nd International Conference on Biodefense & Natural Disasters August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on Oceanography August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference on Epidemiology and Evolutionary Genetics August 21-23, 2013 Holiday Inn Orlando International Airport, Orlando, FL, USA

International Conference and Exhibition on Physical Medicine & Rehabilitation August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

International Conference on Dental & Oral Health Care August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference and Exhibition on Orthopedics & Rheumatology August 19-21, 2013 Embassy Suites Las Vegas, NV, USA

International Conference on Radiology & Imaging August 14-16, 2013 Holiday Inn Chicago-Northshore, IL, USA

4th World Congress on Diabetes & Metabolism August 14-16, 2013 Holiday Inn Chicago-Northshore, IL, USA

International Conference on Genetic Engineering & Genetically Modified Organisms August 12-14, 2013 DoubleTree by Hilton, Raleigh, NC, USA

2nd International Conference on Biodiversity & Sustainable Energy Development August 12-14, 2013 DoubleTree by Hilton, Raleigh, NC, USA

International Conference on Predictive, Preventive, Personalized Medicine & Molecular Diagnostics August 05-07, 2013 Holiday Inn Chicago-Northshore, IL, USA

2nd International Conference on Translational Medicine August 05-07, 2013 Holiday Inn Chicago-Northshore, USA

International Conference on Integrative Biology Summit August 05-07, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference and Exhibition on Pathology August 05-07, 2013 Embassy Suites Las Vegas, NV, USA

3rd International Conference on Vaccines & Vaccination July 29-31, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference on Nephrology & Therapeutics July 29-31, 2013 Embassy Suites Las Vegas, NV, USA

International Conference on Animal & Dairy Sciences July 23-24, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference and Exhibition on Addiction Research & Therapy July 22-24, 2013 Embassy Suites Las Vegas, NV, USA

2nd International Conference on Earth Science & Climate Change July 22-24, 2013 Embassy Suites Las Vegas, NV, USA

4th International Conference on Biomarkers & Clinical Research July 15-17, 2013 Courtyard Marriott Philadelphia Down Town, PA, USA

2nd International Conference and Exhibition on Nutritional Science & Therapy July 15-17, 2013 Courtyard Marriott Philadelphia Down Town, PA, USA

3rd International Conference on Proteomics & Bioinformatics July 15-17, 2013 Courtyard Marriott Philadelphia Down Town, PA, USA

2nd International Conference and Exhibition on Neurology & Therapeutics June 10-12, 2013 Hilton Chicago/Northbrook, USA

2nd International Conference and Exhibition on Biosensors & Bioelectronics June 10-12, 2013 Hilton Chicago/Northbrook, USA

2nd International Conference and Exhibition on Biometrics & Biostatistics June 10-12, 2013 Hilton Chicago/Northbrook, USA

2nd International Conference on Gastroenterology & Urology June 10-12, 2013 Hilton Chicago/Northbrook, USA

2nd International Conference and Exhibition on Occupational Health & Safety May 21-22, 2013 DoubleTree by Hilton Beijing, China

4th World Congress on Bioavailability & Bioequivalence: Pharmaceutical R & D Summit May 20-22, 2013 DoubleTree by Hilton Beijing, China

3rd International Conference on Clinical & Experimental Ophthalmology April 15-17, 2013 Hilton Chicago, Northbrook, IL, USA

3rd International Conference on Clinical & Experimental Dermatology April 15-17, 2013 Hilton Chicago, Northbrook, IL, USA

3rd International Conference on Clinical & Experimental Cardiology April 15-17, 2013 Hilton Chicago, Northbrook, IL, USA

2nd International Conference and Exhibition on Metabolomics & Systems Biology April 08-10, 2013 Hilton Chicago, Northbrook, IL, USA

3rd International Conference and Exhibition on Pharmaceutics & Novel Drug Delivery Systems April 08-10, 2013 Hilton Chicago, Northbrook, IL, USA

International Conference and Exhibition on Water Technologies, Environmental Technologies, and Renewable Energy February 13-14, 2013 Bombay Exhibition Centre, Mumbai, India

conferenceseries LLC Previous Conferences

International Conference and Exhibition on Obesity and Weight Management December 03-05, 2012 DoubleTree By Hilton Philadelphia, USA

International Conference and Exhibition on QA, QC and Validation December 03-05, 2012 DoubleTree By Hilton Philadelphia Centre City, USA

International Summit on GMP & GCP: USA, Europe, Japan, Asia Pacific December 03-05, 2012 DoubleTree By Hilton Philadelphia Centre City, USA

2nd International Conference on Nanotek and Expo December 03-05, 2012 DoubleTree By Hilton Philadelphia Centre City, USA

International Conference and Exhibition on Surgery & Transplantation Nov 26-28, 2012 Hilton San Antonio Airport, USA

International Toxicology Summit & Expo Nov 26-28, 2012 Hilton San Antonio Airport, USA

International Conference on Anesthesia & Perioperative Care Nov 26-28, 2012 Hilton San Antonio Airport, USA

International Conference on Hair Transplantation & Trichology Nov 26-28, 2012 Hilton San Antonio Airport, USA

3rd International Conference and Exhibition on Analytical & Bioanalytical Techniques Nov 22-24, 2012 Hyderabad International Convention Centre, India

International Conference on Food Processing & Technology Nov 22-24, 2012 Hyderabad International Convention Centre, India

2nd International Conference on Pharmaceutical Regulatory Affairs Nov 23-24, 2012 Hyderabad International Convention Centre, India

International Conference and Exhibition on Cosmetology & Cosmetics Nov 23-24, 2012 Hyderabad International Convention Centre, India

Global Biofuels & Bioproduct Summit Nov 19-21, 2012 Hilton San Antonio Airport, USA

International Conference and Exhibition on Probiotics Nov 19-21, 2012 Hilton San Antonio Airport, USA

International Conference on Genetic Syndromes & Gene Therapy Nov 19-21, 2012 Hilton San Antonio Airport, USA

International Conference on Regenerative & Functional Medicine Nov 12-14, 2012 Hilton San Antonio Airport, USA

2nd World Congress on Cell Science & Stem Cell Research Nov 12-14, 2012 Hilton San Antonio Airport, USA

International Conference on Clinical Microbiology & Microbial Genomics Nov 12-14, 2012 Hilton San Antonio Airport, USA

International Conference on Pulmonary & Respiratory Medicine October 29-31, 2012 DoubleTree by Hilton Philadelphia, USA

International Conference and Exhibition on Computer Aided Drug Design & QSAROctober 29-31, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference on Clinical and Cellular Immunology October 22-24, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference and Expo on Materials Science & Engineering October 22-24, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Expo and Conference on Analytrix & HPLC October 22-24, 2012 DoubleTree by Hilton Chicago-Northshore, USA

World Congress on Forensic Research & Technology October 15-17, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference on Biothreat & Biodefense October 15-17, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference on Otolaryngology October 15-17, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference on Emerging Cell Therapies October 01-03, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference and Exhibition on Pharmacovigilance & Clinical Trials October 01-03, 2012 DoubleTree by Hilton Chicago-Northshore, USA

International Conference on Tissue Science & Engineering October 01-03, 2012 DoubleTree by Hilton Chicago-Northshore, USA

2nd International Conference on Pediatrics & Gynaecology September 24-26, 2012 Marriott Convention Center, India

3rd International Conference on Diabetes & Metabolism September 24-26, 2012 Marriott Convention Center, India

International Conference and Exhibition on Translational Medicine September 17-19, 2012 Holdiay Inn San Antonio, USA

International Conference on Agricultural & Horticultural Sciences September 14-15, 2012 Hyderabad International Convention Center, India

International Conference and Exhibition on Hotel & Business Management September 14-15, 2012 Hyderabad International Convention Center, India

3rd World Congress on Biotechnology September 13-15, 2012 Hyderabad International Convention Center, India

2nd World Congress on Cancer Science & Therapy September 10-12, 2012 Hilton San Antonio Airport, USA

International Conference on Hydrology and Ground Water Expo September 10-12, 2012 Hilton San Antonio Airport, USA

World Congress and Expo on Biowaivers & Biosimilars September 10-12, 2012 Hilton San Antonio Airport, USA

International Conference on Occupational Health & Safety Summit September 05-07, 2012 DoubleTree by Hilton Philadelphia, USA

International Conference on Central Nervous System-gs Effecting & Novel Drug Development September 05-07, 2012 DoubleTree by Hilton Philadelphia, USA

International Conference on Pathology August 27-29, 2012 DoubleTree by Hilton Philadelphia, USA

International Conference and Exhibition on Nutritional Science & Therapy August 27-29, 2012 DoubleTree by Hilton Philadelphia, USA

International Conference on Earth Science & Climate Change August 21-22, 2012 Hilton Chicago/Northbrook, USA

International Conference and Exhibition on Nephrology & Therapeutics August 20-22, 2012 Hilton Chicago/Northbrook, USA

2nd International Conference on Vaccines & Vaccination August 20-22, 2012 Hilton Chicago/Northbrook, USA

International Conference and Exhibition on Addiction Research & Therapy August 20-22, 2012 Embassy Suites Las Vegas, USA

2nd World Congress on Virology August 20-22, 2012 Embassy Suites Las Vegas, USA

International Conference and Exhibition on Orthopedics August 13-15, 2012 Hilton Chicago/Northbrook, USA

International Conference and Exhibition on Rheumatology & Therapeutics August 14-15, 2012 Hilton Chicago/Northbrook, USA

2nd International Conference on Proteomics & Bioinformatics July 02-04, 2012 Embassy Suites Las Vegas, USA

3rd International Conference on Biomarkers & Clinical Research July 02-04, 2012 Embassy Suites Las Vegas, USA

International Conference and Exhibition on Neurology & Therapeutics June 14-16, 2012 Embassy Suites Las Vegas, USA

International Conference and Exhibition on Biosensors & Bioelectronics June 14-16, 2012 Embassy Suites Las Vegas, USA

3rd World Congress on Bioavailability & Bioequivalence: Pharmaceutical R & D Summit March 26-28, 2012 Hyderabad Marriott Hotel, India

World Congress on Gastroenterology & Urology March 12-14, 2012 Omaha Marriott, Omaha, USA

International Conference and Exhibition on Nanotechnology & Nanomedicine March 12-14, 2012 Omaha Marriott, Omaha, USA

2nd International Conference on Clinical & Experimental Opthalmology March 05-07, 2012 Omaha Marriott, Omaha, USA

2nd International Conference on Clinical & Experimental Dermatology March 05-07, 2012 Omaha Marriott, Omaha,USA

2nd International Conference on Clinical & Experimental CardiologyMarch 05-07, 2012 Omaha Marriott, Omaha, USA

International Conference and Exhibition on Biometrics & Biostatistics March 05-07, 2012 Omaha Marriott, Omaha, USA

International Conference on Metabolomics & Systems Biology February 20-22, 2012 San Francisco Airport Marriott Waterfront, USA

2nd World Congress on Pharmacetics & Novel Drug Delivery Systems February 20-22, 2012 San Francisco Airport Marriott Waterfront, USA

2nd International Conference on Analytical & Bioanalytical Techniques December 16-17, 2011 San Francisco, USA

2nd World Congress on Diabetes & Metabolism December 06-08, 2011 Philadelphia, USA

International Conference on Pediatrics & Gynecology December 06-08, 2011 Philadelphia, USA

International Conference and Exhibition on Cell Science & Stem Cell Research Nov 29-Dec 01, 2011 Philadelphia, USA

2nd World Congress on Biotechnology Nov 29-Dec 01, 2011 Philadelphia, USA

International Conference and Exhibition on Vaccines & Vaccination Nov 22-24, 2011 Philadelphia, USA

International Conference-cum-Exhibition on Agribusiness and Food Processing Nov 20-22, 2011 Hyderabad, India

2nd World Congress on Biomarkers & Clinical Research September 12-14, 2011 Baltimore, USA

International Conference and Exhibition on Pharmaceutical Regulatory Affairs September 06-07, 2011 Baltimore, USA

International Conference and Exhibition on Virology September 05-07, 2011 Baltimore, USA

International Conference and Exhibition on Cancer Science & Therapy August 15-17, 2011 Las Vegas, USA

International Conference and Exhibition on Clinical Research: Dermatology, Ophthalmology and Cardiology July 05-06, 2011 San Francisco, USA

International Conference & Exhibition on Proteomics & Bioinformatics June 06-08, 2011 HICC, Hyderabad, India

International Conference & Exhibition on Pharmaceutical Biotechnology June 06-08, 2011 HICC, Hyderabad, India

2nd World Congress on Bioavailability & Bioequivalence: Pharmaceutical R & D Summit June 06-08, 2011 Las Vegas, USA

International Conference on Pharmaceutics & Novel Drug Delivery Systems June 07-08, 2011 Las Vegas, USA

World Congress on Biotechnology March 21-23, 2011 Hyderabad, India

International Conference on Diabetes and Metabolism December 13-14, 2010 Santa Clara, USA

International Conference and Exhibition on Biomarkers & Clinical Research Nov 22-23, 2010 Santa Clara, USA

International Conference and Exhibition on Analytical and Bioanalytical Techniques: Pharmaceutical R & D Summit Nov 01-03, 2010 Hyderabad, India

International Conference and Exhibition on Bioequivalence & Bioavailability: Pharmaceutical R & D Summit March 01-03, 2010 Hyderabad, India

Integrating Glycomics with other Omics in Cancer Detection and Diagnosis Cancer Detection and Diagnosis January 19-20, 2010 Stanford University School of Medicine

3rd World Congress of Gene-2009 December 01-07, 2009

7th Annual World Congress of International Drug Discovery Science & Technology October 22-25, 2009

2nd WSA-2009 July 18-20, 2009

1st CCSB-2009 February 16-17, 2009

2nd PRICPS-4th AOHUPO June 22-26, 2008

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Conference Series Ltd
Heathrow Stockley Park Lakeside House, 1 Furzeground Way
Heathrow, UB11 1BD
United Kingdom
europe@conferenceseries.com

OMICS International
6th Floor, North Block
Divyasree Building, Raidurg Hyderabad
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Tel: +91-40-33432300
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Toll free
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