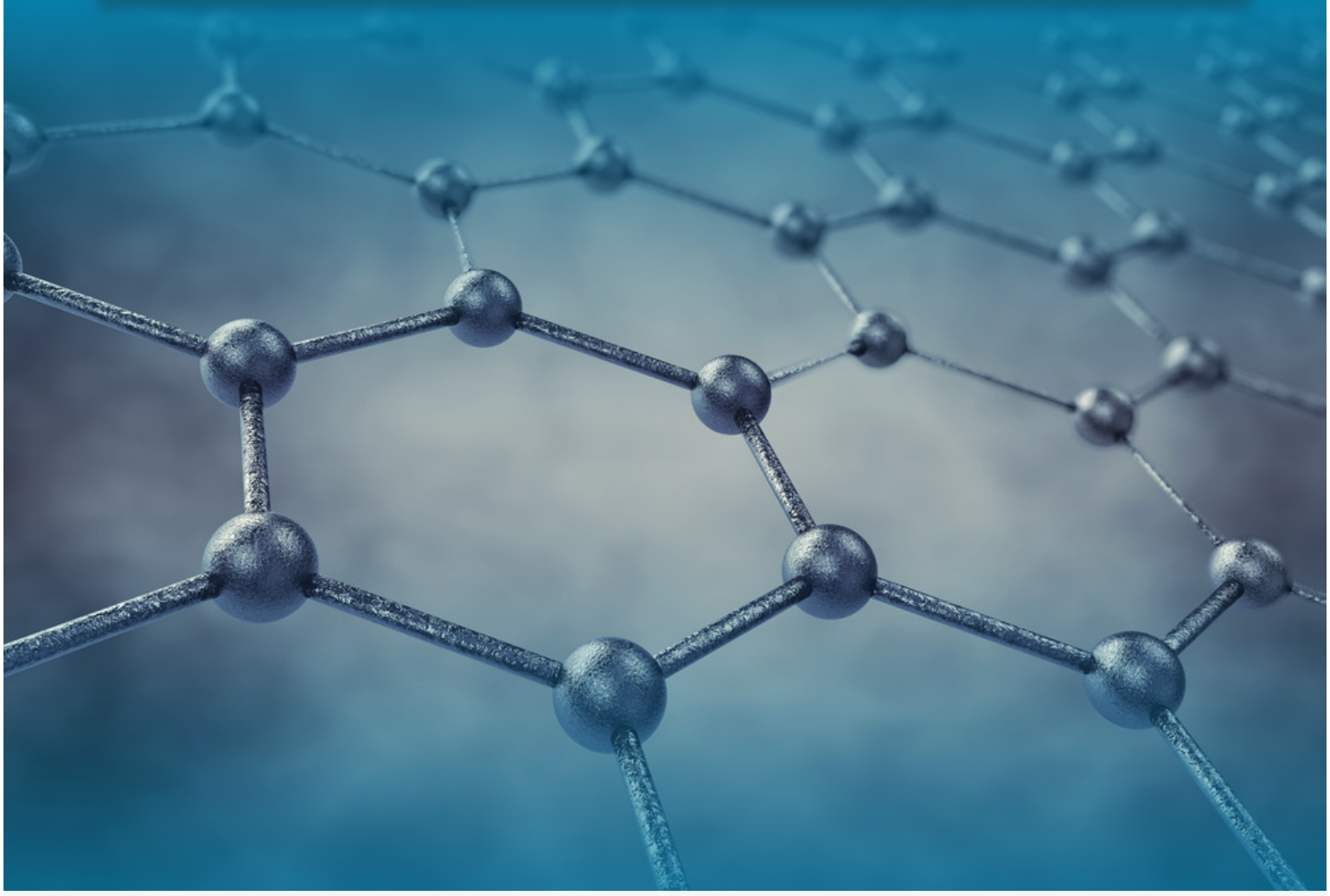
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# Tentative Program

# 25th Nano Congress for Future Advancements

**Dublin, Ireland August 16-18, 2018**

*Theme: Nascent Approaches for Nanotech Outreach*



## **For Available Speaker Slots**

**nanocongress@nanotechconferences.org**


**Conference Secretariat**

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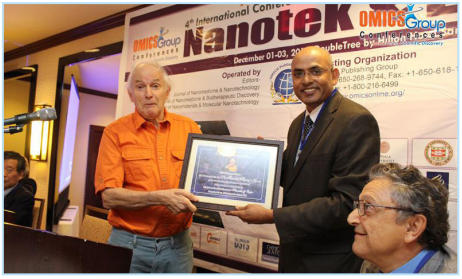

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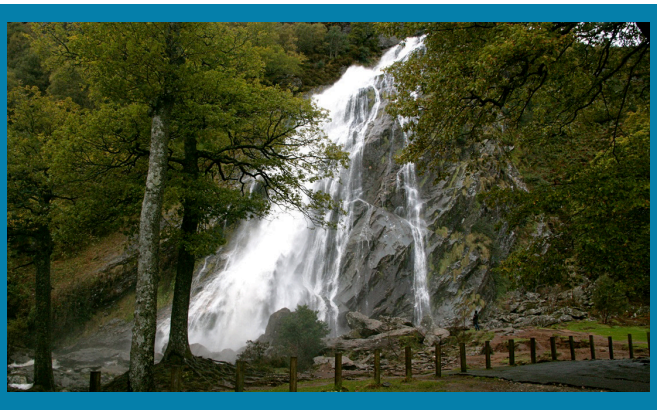

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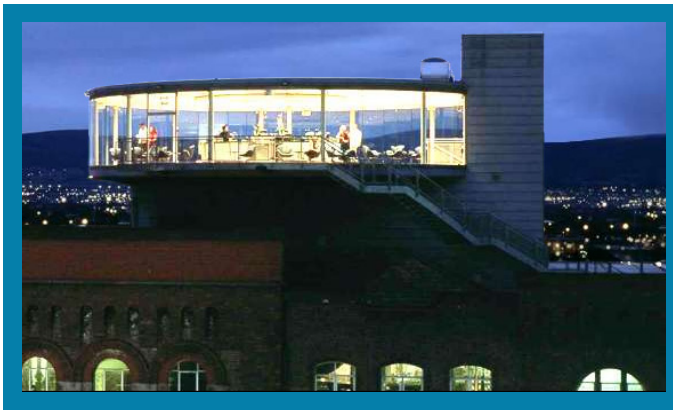
# TOURIST DESTINATIONS IN DUBLIN



Aqua Zone



Powerscourt Waterfall



Guinness Storehouse



Irish whiskey museum



Kilmainham Gaol



Museum-of-Natural-History




National Wax Museum



Phoenix Park

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# 25th Nano Congress for Future Advancements

August 16-18, 2018 | Dublin Ireland

AGENDA

# 25th Nano Congress for Future Advancements

## Dublin, Ireland August 16-18, 2018

**Program at A Glance**

**Day 1**

| | | | |
|---|---|---|---|
| Morning Sessions | **Reception/Registration** | **08.00-09.00** | |
| | | **Time** | **General Session** |
| | Keynote/Plenary Talks | 09.00-09.15 | Inaugural Address |
| | | 09.15-09.45 | Keynote/Plenary Talk 1 |
| | | 09.45-10.15 | Keynote/Plenary Talk 2 |
| | | 10.15-10.45 | Keynote/Plenary Talk 3 |
| | Panel Discussions/Group Photo | | |
| | **Coffee/Tea Break 10.45-11.00 (Networking)** | | |
| | 11.00-12.40 | Nanoscience and Technology | |
| | | Advanced Nanomaterials | |
| | | | |
| | **Lunch Break 12.40-13.30** | | |
| Evening Sessions | 13.30-15.30 | Nano Materials Synthesis and Characterisation | |
| | | Nanobiomaterials | |
| | | | |
| | **Coffee/Tea Break 15.30-15.45 (Networking)** | | |
| | 15.45-17.25 | Materials Science and Engineering | |
| | | Nanotechnology and Cosmetics, Nano Electronics | |
| | | A Carbon based Nanomterials & devices | |
| | | Nanotech for Energy and Environment | |

**Day 2**

| | | | | |
|---|---|---|---|---|
| Morning Sessions | | **Time** | **Session 1** | **Session 2** |
| | Least of 3 Keynote/Plenary Talks | 09.15-09.45 | Keynote/Plenary Talk 1 | |
| | | 09.45-10.15 | Keynote/Plenary Talk 2 | |
| | | 10.15-10.45 | Keynote/Plenary Talk 3 | |
| | 10.55-12.35 | | Nano Medicine | Nano Biotechnology |
| | | | Nanotechnology in Agriculture and Food Industry | |
| | **Lunch Break 12.35-13.25** | | | |
| Evening Sessions | 13.25-15.05 | | Nano Computational Modelling | Nanophotonics |
| | | | Molecular Nanotechnology | Nanotechnology Safety |
| | | | | |
| | **Coffee/Tea Break 15.05-15.20 (Networking)** | | | |
| | 15.20-18.00 | | Nanotechnology in Tissue Engineering | Nano Applications |
| | | | Materials Science and Engineering | |
| | | | Nano Medicine | Nano Biotechnology |

# 25th Nano Congress for Future Advancements

## Dublin, Ireland August 16-18, 2018

**Day 3**

| | Time | Session 1 | Session 2 |
|---|---|---|---|
| Morning Sessions | | | |
| Least of 3 Keynote/Plenary Talks | 09.15-09.45 | Keynote/Plenary Talk 1 | |
| | 09.45-10.15 | Keynote/Plenary Talk 2 | |
| | 10.15-10.45 | Keynote/Plenary Talk 3 | |
| 10.55-12.35 | | Nano Medicine | Nano Biotechnology |
| | | Nanotechnology in Agriculture and Food Industry | |
| **Lunch Break 12.35-13.25** | | | |
| 13.25-15.05 | | Nano Computational Modelling | Nanophotonics |
| | | Molecular Nanotechnology | Nanotechnology Safety |
| Evening Sessions | | | |
| **Coffee/Tea Break 15.05-15.20 (Networking)** | | | |
| 15.20-18.00 | | Nanotechnology in Tissue Engineering | Nano Applications |
| | | Video presentations | |
| | | Young Research Forum | Poster Session |
| **Awards & Closing Ceremony** | | | |

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details, visit: http://nanocongress.conferenceseries.com/

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## Title: Microtubular nanomembrane devices: From energy storage to reproduction technologies

**Oliver G. Schmidt**

Institute for Integrative Nanosciences
Germany

Biography: Prof. Dr. Oliver G. Schmidt is the Director of the Institute for Integrative Nanosciences at the Leibniz IFW Dresden, Germany. His interests bridge across several disciplines, ranging from nanomaterials and nanoelectronics to microfluidics, microrobotics and biomedical applications. He has received several awards: the Otto-Hahn Medal from the Max-Planck-Society in 2000, the Philip-Morris Research Award in 2002, the Carus-Medal from the German Academy of Natural Scientists Leopoldina in 2005, and the International Dresden Barkhausen Award in 2013. Most recently, he was awarded the Gottfried Wilhelm Leibniz-Prize 2018 of the German Research Foundation. The Leibniz-Prize is Germany's most important research award and recognizes his outstanding work in the investigation, manufacturing and innovative application of functional

## Title: Epitaxial Oxides on Silicon for Nanoelectronic Applications

**H. Jörg Osten**

Leibniz University Hannover
Germany

Biography: H. Jörg Osten studied physics in Poland. First he was working at the Institute for Physical Chemistry in Berlin in the field of radio-frequency spectroscopy. In 1988, he joined the Institute of Semiconductor Physics (IHP) in Frankfurt(Oder)/Germany. In 2002, he became the director of the Institute Electronic Materials and Devices at the Leibniz University of Hannover/Germany, where he also holds a chair for electronic materials and technology.
He published more than 270 papers and gave more than 80 invited and 200 contributed talks at international conferences.

## Title: Nanogauges for integration of strain sensors integrated into matter

**Thomas Maurer**

University of Technology of Troyes
France

Biography: Thomas Maurer is associate professor at the University of Technology of Troyes. He has been developing a research activity at the interface of nanotechnology, mechanics and optics, which can be designed as mechanoplasmonics. In parallel, Thomas Maurer is a member of the Action Laboratory of Excellence executive committee and responsible of the Smart sensors scientific work group whose aim is to integrate sensing functionalities into matter.

## Title: Nanocarbon-based electrode technology for soft electronics

**Joong Tark Han**

University of Science and Technology
Republic of Korea

Biography: Joong Tark Han was born in Korea in 1974. He was completed his PhD at the age of 33 years from Pohang University of Science and Technology. He is the center director of Nano Hybrid Technology Research Center at KERI in Korea, and a professor of Department of Electro-Functionality Materials Engineering at UST. He has published more than 90 papers in reputed journals

## Title: Graphene-based Nano Materials for Energy Storage and Photocatalysis

**Jae-Jin Shim**

Yeungnam University
Republic of Korea

Biography: Jae-Jin Shim received his BS degree from Seoul National University in 1980, MS degree from KAIST in 1982, PhD degree from the University of Texas at Austin in 1990. He has been a professor in Yeungnam University since 1994 and served as School Chairman and Vice-Dean of Engineering. He was the President of the Korean Society of Clean Technology and Vice President of the Korean Society of Engineering Education. He is the Directors of Institute of Clean Technology and Clean Energy Priority Research Center and served as the Chief Editor of "Clean Technology". He has published 150 papers in reputed journals.

## Title: Nanoengineered plasma polymer films for biomedical applications

**Krasimir Vasilev**

University of South Australia
Australia

Biography: I completed my PhD at the Max-Planck Institute for Polymer Research in Mainz, Germany in 2004. After a short postdoctoral stay as a Marie Curie Fellow at the Institute of Genomics and Molecular and Cellular Biology in Strasbourg, France, in 2005, I accepted a research position at the University of South Australia. I was appointed as a Senior Lecturer in March 2009. In 2010, I was awarded the prestigious Future Fellowship from the Australian Research Council. I was promoted to Associate Professor in January 2012. I have held positions such as Associate Head of School-Research (2012-2013) and Research Education Portfolio Leader (2014-2015). In 2016, I was awarded two prestigious fellowships i.e. the Humboldt Fellowship for Experienced Researchers from the Humboldt Foundation and a Research Fellowship from National Health and Medical Research

## Title: Nanoscale optical trapping; current challenges and future directions

**Carlo Bradac**

University of Technology of Sydney
Australia

Biography: Dr Carlo Bradac is a Research Fellow at the University of Technology, Sydney. He studied physics and engineering at the Polytechnic of Milan (Italy) where he achieved his Bachelor (2004) and Master degree (2006) in Engineering for Physics and Mathematics. He received his PhD in Physics at Macquarie University in 2012. His research focuses on colour centres in diamond and on their potential use in quantum information technologies, biomedical applications and high-resolution single-spin sensing.

## Title: Flexible superhydrophobic heater with silver nanowires and carbon nanotubes

**Jong Seok Woo**

Morgan Advanced Materials
Korea (South)

Biography: Jong Seok Woo was born in Korea in 1978. He was completed his PhD at the age of 38 years from Kyungpook University. He is the manager of Morgan Advanced Materials in Korea. He has published more than 20 papers in reputed journals.

## Title: Silver nanoparticles in municipal wastewaters and environmental fate

**CHRISTIAN GAGNON**

Aquatic Contaminants Research Division
Canada

Biography: Christian Gagnon is a senior researcher in Geochemistry at Environment and climate change Canada. He obtained his PhD from the University of Quebec/INRS-oceanography and completed his post-doctoral studies on the bioavailability of contaminants at the State University of New York, Stony Brook. His research focuses on the fate, transformation and behaviour of chemical contaminants released into the aquatic environment. All of its work aims at a better understanding of the mechanisms of transformation and the fate of metals and emerging substances in waste water discharges and the receiving environment. He has published over 150 scientific publications and reports and has contributed to over 250 scientific presentations on contaminant behaviour in the aquatic environment.

## Title: In line/On line and at line Nano-particle measurement by 180° DLS in processes and high-throughput robotics with and without dilution.

**David Pugh**

Microtrac GmbH
Germany

Biography: David Pugh has completed his BSc from Aston University Chemical Engineering Department, Birmingham UK. He is the European Business Development Director of Microtrac GMBH, the technologically premier organization for providing solutions in particle characterization. He has been published and presented in more than 25 papers in reputed journals and international conferences on many multi-disciplinary subjects ranging from cosmetics, cement, coal, chocolate emissions to pharmaceutics. He has more than 35 years' experience in providing technical solutions both in the laboratory and in real time process monitoring.

## Title: Cancer Nanotechnology: Gold nanostructures as a platform for combinational therapy in future cancer therapeutics

**Devika Chithrani**

University of Victroria
USA

Biography: Dr. Devika Chithrani is the director of naoscince and technology development labotory at University of Victoria. Dr. Chithrani leverages nanotechnology to create innovations that advance the care of cancer patients. She is using gold nanoparticles as a radiation dose enhancer in cancer therapy. This work is featured on the cover of radiation research journal. She has developed three dimensional tumor models to optimize bio-nano interface in cancer therapy. This work is featured on the cover of Nano-Micro Letters journal. Dr. Chithrani is considered as one of the leaders in the field of nanotechnology and her publications have received over 6500 citations in few years. Dr. Chithrani has earned a strong international reputation for her innovative research through her many review articles, book chapters, and invited presentations. She is an associate editor of many nanotechnology

## Title: Bioinspired materials templates by nature species

**Di Zhang**

Shanghai Jiao Tong University
China

Biography: Professor ZHANG Di, male, was born in March 1957. He is a professor of materials science of the "Yangtze River (Changjiang) Scholarship Scheme". In March 1988, he acquired his PhD degree from Osaka University, Japan.His research focuses on light weight and high strength materials, metal matrix composites and materials used for ceramic cells and fuel cell. His development of the in-situ reinforced Ti-based composites and the Mg-Li-based composites are of international level while his research in the recent years has brought to the great attention of the industrial circle and the academic circle of Japan of the fabrication of wood ceramics from the waste wood-based materials such as wood pulp fiber and of the fabrication the green composites by composition of the wood ceramics and metals that has an integration of structure and function.

## Title: Architecture and Interface Design for High Conductive Graphene/Copper Composites

**Ding-Bang Xiong**

Shanghai Jiao Tong University
China

Biography: Ding-Bang Xiong is an associate professor in the State Key Lab of Metal Matrix Composites, in Shanghai Jiao Tong University, China since 2012. He obtained Ph.D degree in material physics and chemistry from Shanghai Institute of Ceramics in 2007. Between 2007-2010, he completed his postdoctoral research in Marburg University as AVH fellow, Germany and between 2010-2012, he did collaboration research as JSPS fellow in Kyoto University. Her current research focus is on fabrication and properties of metal matrix composites.

## Title: Effect of LCP/PET Blend Composition and Spinning Parameters on Nanofiber Formation Condition

**Han-Yong Jeon**

Inha University
Korea(South)

Biography: Prof. Han-Yong Jeon, geosynthetics/technical organic materials researcher and he was the 32nd President of Korean Fiber Society (2014~2015). He has published more than 843 papers in domestic and international conferences. He wrote 20 texts including 'GEOSYNTHETICS' and also published 143 papers in domestic & international journals. He has awards of Marquis Who'sWho - Science and Engineering in 2003~2017 and also, he got the 33rd Academy Award of Korean Fiber Society in 2006 and "Excellent Paper Award of 2012" by The Korean Federation of Science and Technology Societies.

## Title: Low-temperature $SnO_2$-modified $TiO_2$ yields record efficiency for normal planar perovskite solar modules

**Guan-Jun Yang**

Xi'an Jiaotong University
China

Biography: Prof. Dr. Guan-Jun Yang is the director of Center for Thermal Spray and Hybrid Materials, Xi'an Jiaotong University, China. He has published >150 peer-reviewed papers, delivered >30 plenay/kenote/invited talks and issued >30 patents.

## Title: Dispersed nano-graphene platelets within water-soluble bio-compatible polymers: Characterization of multi-scale electric charge flow

**Anthony N. Papathanassiou**

National and Kapodistrian University of Athens, Greece

Biography: Assist. Prof. Dr. Anthony Papathanassiou is leading the Dielectric Spectroscopy Laboratory at the Department of Physics, National and Kapodistrian University of Athens (NKUA), Greece. He got his PhD in Solid State Physics from NKUA. He worked as research associate in NKUA, Universität Bayreuth and Lyman Physics Laboratory, Harvard University as a research scholar or research fellow. His current research interest is on electric charge transport and relaxation in electron-conducting polymers and nano-composites, emphasizing on the role of pressure and temperature on electronic properties and phase transitions of condensed matter.

## Title: Nanostructure degradation and recovery as a cause of instability in kinetics of radiation embrittlement of the reactor pressure vessel steel

**E. Krasikov**

National Research Centre
Russia

Biography: Krasikov E. is a Head of Laboratory, Department of Reactor Materials and Technologis at the National Research Centre "Kurchatov Institute" (Moscow, Russia), with key qualification: responsible executor in Radiation Damage Physics of Solids. Master's Degree in Material Science – 1970, Ph.D. – 1974, D.Sc. -2005. He has published more than 100 peer-reviewed papers.

## Title: Functionally Antagonistic Nano-Engineering

**ILKWON OH**

Korea Advanced Institute of Science and Technology (KAIST), Korea

Biography: Prof. Il-Kwon Oh is the director of Active Materials and Dynamic Systems Lab and is working as a full professor in the department of mechanical engineering at KAIST. He received his Ph. D. degree from the Department of Mechanical Engineering at KAIST and joined LG Digital Appliance Research Laboratory as a Senior Researcher in 2001. And then he became an Assistant Professor at Chonnam National University in 2004 and was promoted as an Associate Professor in 2008. Also, he was a visiting scholar in Stanford University at 2007. In 2010, he moved to KAIST as an associate professor and was promoted to a full Professor in the department of mechanical engineering in 2015. Currently, he is a director of the Creative Research Initiative Center for Functionally Antagonistic Nano-Engineering. He is an Editorial Board member in Scientific Reports,

## Title: Pre-formulation of nanostructured lipid carriers (NLC) for drug delivery: excipient-excipient interaction

**Laura Oliveira-Nascimento**

State University of Campinas
Brazil

Biography: Laura de Oliveira Nascimento has completed his PhD in 2011 from University of São Paulo (USP), Brazil, with doctoral internship at Boston University, USA, and postdoctoral studies in USP. She is a Professor at State University of Campinas, Brazil. Her research group is focused on nanotechnology and freeze dried pharmaceutical dosage forms.

## Title: Numerical Modelling on Nano structured Coating in Suspension Plasma Spray

**Lijuan Qian**

China Jiliang University
China

Biography: Lijuan Qian has completed her PhD at the age of 28 years from Zhejiang University in China. She is an associate professor at the institute of electrical and mechanical engineering in China Jiliang unverity. Her research interests include computational modeling and experimental study on multiphase flow. She has published more than 20 papers in reputed journals. Her reseach work is Supported by the National Natural Science Foundation of China with Grant No.11632016 and No.11372006.

## Title: Next generation C60 enabled antibiotics

**Martin Quirke**

Dublin Institute of Technology
Ireland

Biography: Martin Quirke is currently a PhD student based in Dublin Institute of Technology. He graduated from DIT in October 2015 with a 1.1 in Science and Nanotechnology, majoring in Physics.

## Title: $BiFeO_3$ SYNTHESIZED ON THE SOLAR FURNACE

**Mukhammad-Sultan Payzullakhanov**

Institute of Material Science

Biography: Mukhammad-Sultan Payzullakhanov has completed in the 1984 at the age of 25 years from Uzbek National University and postdoctoral studies from Nuclear Physics Institute of the Uzbekistan academy of Sciences and defended PhD thesis on the effects of radiation on the structure and properties of superconducting ceramics in the 1998. The field of scientific interests is material sciences, solar energy use. He is the head of the ceramics laboratory of the Material-sciences institute of the scientific production association "Physics-Sun". He has published more than 45 papers in reputed journals and has been serving as an editorial board member of repute.

## Title: Electroanalytical detection of heavy metals using metallophthalocyanine and silica coated iron oxide composites

**Nolwazi Nombona**

University of Pretoria
RSA

Biography: Nolwazi Nombona completed her PhD at the age of 26 years from Rhodes University in South Affrica. She works at the University of Pretoria where my research focuses on the integration of inorganic molecules with nanomaterials for the development of electrochemical sensors which detect pathogens and carcinogens in the environment. She has published more than 15 papers in reputed journals.

## Title: Fluorescent and T1 MRI active Multilayer Nanoparticle for Imaging and Targeting Cellular Delivery

**Oara Neumann**

Rice Unicversity Applied Physics
USA

Biography: Oara Neumann is the J. Evans Atwell-Welch Research Scientist at Rice University (a fully funded, endowed research scientist position at the university). She has completed her PhD and Postdoctoral study in Applied Physics at Rice University, an MSc in Chemical Physics from Weizmann Institute of Science, Israel and a MSc in Analytical Chemistry from Bucharest University, Romania. She is the pioneer of nanoparticle-based solar thermal applications. She holds 12 patents and she has published more than 24 refereed articles and has an h-index of 16.

## Title: Sustainable Development in Green Energies, and the environment

**Abdeen Omer**

Energy Research Institute
UK

Biography: Abdeen Mustafa Omer (BSc, MSc, PhD) is an Associate Researcher at Energy Research Institute (ERI). He obtained both his PhD degree in the Built Environment and Master of Philosophy degree in Renewable Energy Technologies from the University of Nottingham. He is qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technologies. He has been graduated from University of El Menoufia, Egypt, BSc in Mechanical Engineering. His previous experience involved being a member of the research team at the National Council for Research/Energy Research Institute in Sudan and working director of research and development for National Water Equipment Manufacturing Co. Ltd., Sudan. He has been listed in the book WHO'S WHO in the World 2005, 2006, 2007 and 2010. He has published over 300 papers

## Title: Confined Nanoscale Geometrics to Enhance Sensitivity of Plasmonic Immunoassays

**Rishabh Rastogi**

Luxembourg Institute of Science and Technology

Biography: Rishabh Rastogi is a PhD. Student from Delhi, India. During his studies he worked within different laboratories learning scientific skills and gaining experience in nanofabrication, which made him motivated towards this field. He is working on fabrication of structures that engineered nanoscopically in order to achieve enhancement in electromagnetic waves due to confinement effects. At LIST he is working towards developing plasmonic immunoassays with extreme sensitivity.

## Title: Engineering gyroid-structured functional materials via templates discovered in nature and in the lab

**Wang Zhang**

Shanghai Jiao Tong University
China

Biography: Dr. Zhang Wang, male, was born in March 1981. He is now an associate professor in Department of Materials Science and Engineering in Shanghai Jiao Tong University. In June 2008, he acquired his PhD degree from Shanghai Jiao Tong University, China. His research focuses on optical functional materials with hierarchical 3D structures, such as quasi-honeycomb structure and gyroid structure, by templated from natural species. By replicating the natural component with functional inorganic materials while maintaining the morphologies of the biological species, his major work is to systematically investigate the potential applications of these functional materials in manipulation of light propagation, photo-thermal conversion, light enhancement et al, together with the underlying mechanisms.

## Title: Reusable Mesoporous Solid-Based Pd Catalysts for C-C bonds formation in Water

**Ying Wan**

Shanghai Normal University
China

Biography: Professor Ying Wan received her Ph.D. degree in Industrial Catalysis from the East China University of Science and Technology in 2002. Then, she joined Shanghai Normal University where she was promoted to a full professor in 2006. In 2005-2007, she carried out her postdoctoral research at Fudan University working with Professor Dongyuan Zhao. Currently, Professor Ying Wan is the leader of the Program for Innovative Research Team in University, China. Her research focuses on sintering-, and poisoning-resistance metal nanocatalysts supported on mesoporous carbons, and their applications in green organic synthesis and energy chemistry. She has contributed to about 70 peer-reviewed scientific publications with more than 7000-times citations and 3 books. She has been an associate editor of Journal of Porous Materials since 2013.

## Title: Synthesis and Electrochemical Investigation of Cubic Structured Fe-doped-SrCoO3 Nanocomposite Cathode for LT-SOFC

**Ghazanfar Abbas**

COMSATS Institute of Information Technology

Biography: Dr. Ghazanfar has completed his PhD in 2013 from Department of Physics, Bahauddin Zakariya University, Multan-60800, Pakistan. Currently, he is Assistant Professor in the Department of Physics, COMSATS Institute of Information Technology, Lahore-5400, Pakistan. He has published more than 35 papers in well reputed journals having an impact factor of 130.

## Title: Restoration of damaged dental enamels using nano-scale iron-calcium phosphate minerals and femto-second pulsed near-IR lasers

**Animesh Jha**

University of Leeds
UK

Biography: He is working on Fundamentals of chemical kinetics, thermodynamics, and phase transformation, applications of materials fundamentals for processing of rare-earth and critical materials and minerals. Mineral process engineering and flow-sheet development.

## Title: Attractive Advanced Cell Therapy by Using Bioresorbable Magnetic Nanoparticles

**Silvia Panseri**

National Research Council of Italy
Italy

Biography: Silvia Panseri is a biologist and she has completed her Ph.D. in 2009 at the University of Milan (Italy). Her research activity is mainly focus on nano- and regenerative medicine. She has great expertise in cell-biomaterial interactions at the nanoscale, in magnetic cell guiding and 3D cell culture in bioreactor with several scaffolds. Author of more than 50 papers published in international peer-reviewed journals, 12 book chapters, co-inventor of 2 patents. H-index = 19. She has been serving as a guest editor in International Journal of Molecular Sciences and Frontiers in Bioengineering and Biotechnology.

## Title: Smart Biomimetic Nanoparticles: a New Platfor For Nanomedicine

**Monica Montesi**

National Research Council
Italy

Biography: Dr. Monica Montesi has obtained her PhD in Cellular and Molecular Biology at the University of Bologna and she has 12 years of expertise in cellular and molecular biology associated to material science for nanotechnology, tissue engineering research and regenerative medicine. She has scientific coordinator of NanoBioMagnetism Laboratory. Author of 40 papers published in international journals, several book chapters and more than 30 congress communications. She has been serving as an editorial board member of International Journal of Bone and Mineral Metabolism's and Guest Editor of International Journal of Molecular Sciences. H-index = 11, i-10 index =11, total citations: 389

# Conference Venue

## Dublin, Ireland




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