EuroSciCon

Atomic & Plasma Science

July 16-17 2018

Prague, Czech Republic



Atomic & Plasma Science 2018

https://plasmaphysics.euroscicon.com/

Day 1, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Atomic & Plasma Science**	Talks On: **Atomic Physics**	Talks On: **Quantum Physics**
	Talks On: **Plasma Chemistry**	Talks On: **Nuclear Physics**	Talks On: **Condensed Matter Physics**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Plasma in Laser**	Panel Over: **Nuclear Medicine**	Panel Over: **Higher Energy Physics**
	Workshop On: **Plasma in technology**	Workshop On: **Nuclear Cardiology**	Workshop On: **Mathematical Methods for Atomic & Plasma Science**
	Lunch Break @ Restaurant	*Lunch Break @ Restaurant*	*Lunch Break @ Restaurant*
04:00 PM	Talks On: **Plasma in Technology, Biology & Medicine**	Talks On: **Nuclear Chemistry**	Talks On: **Plasma Ignition**
	Lectures on: **Plasma Modeling, Generation & Diagnostics**	Lectures on: **Plasma in Astrophysics & Astronomy**	Lectures on: **Plasma Flow Control**
06:00 PM	Session On: **Plasma Catalysis**	Session On: **Plasma Mining & Mineral Processing**	Session On: **Low Temperature & Dusty Plasmas**
	NETWORKING	**NETWORKING**	**NETWORKING**

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Day 2, Agenda

General Session

08:00 AM — INTRODUCTION

09:00 AM — PLENARY

10:00 AM — KEYNOTE

Networking & Refreshments Break @ Foyer

	HALL 01	HALL 02	HALL 03
11:00 AM	Talks On: **Plasma Surface Interactions in Controlled Fusion**	Talks On: **Plasma Flow Dynamics**	Talks On: **Comparison between Plasma Ignition System & Conventional Ignition System**
	Talks On: **Plasma Theory & Simulation**	Talks On: **Plasma & Molecular Dynamics**	Talks On: **Electromagnetic Effects in High Beta Plasmas**
	SESSION DISCUSSION	**SESSION DISCUSSION**	**SESSION DISCUSSION**
02:00 PM	Panel Over: **Laser & Accelerator Technologies**	Panel Over: **Plasma Kinetics**	Panel Over: **Multi-Phase Plasmas**
	Workshop On: **Power Exhaust, Plasma Detachment and Heat Load Control**	Workshop On: **Translational Relaxation of Heavy Particles**	Workshop On: **Physical study on tokamak devices design**
	Lunch Break @ Restaurant	***Lunch Break @ Restaurant***	***Lunch Break @ Restaurant***
04:00 PM	Talks On: **Short-lived and Long-lived Plasmas**	Talks On: **Electric Propulsion**	Talks On: **Turbulence and transport in tokamak**
	Lectures on: **Medical applications like proton/ carbon therapy**	Lectures on: **Vibrational Relaxation of Molecules**	Lectures on: **Electromagnetic Effects in High Beta Plasmas**
06:00 PM	Session On: **New Plasma Effects & Perspective Applications**	Session On: **Artificial Plasmas**	Session On: **Plasma Thermodynamics**
	NETWORKING	**NETWORKING**	**NETWORKING**

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Title: Modeling of Fast Discharges in High-Pressure Gases

George V. Naidis, *Joint Institute for High Temperatures RAS, Moscow 125412, Russia*

Title: A Single Electrode Plasma Discharge Tube Device

Shouguo Wang, *Qilu University of Technology, China*

Title: Study of the Wear Mechanism for (Al-12%Si) Alloy after Laser Surface Hardening Processing

Adel K. Mahmoud, *University of Diyala , Department of Mechanical Engineering, Diyala, Iraq*

Title: Evaluation of the Residual Stresses in Wear Protection Coatings using X-Ray Diffraction, Ultrasonic and Finite Element Technique

Adel K. Mahmoud, *University of Diyala, Department of Mechanical Engineering, Diyala, Iraq*

Title: Spectral studies of combined UV-VIS and infrared emission from laser-induced carbon and other plasmas

László Nemes, *Research Centre for Natural Sciences, Institute of Materials and Environmental Chemistry, Hungarian Academy of Sciences, Magyar Tudósok Körutja 2, Budapest 1519, Hungary*

Title: Structure and Stability on Multidimensional Nonlinear Waves in Space Plasma

Vasily Yu. Belashov, Institute of Physics (Kazan Federal University), Russia

Title: Vbm Fusion Reactor H – H Cycle

Badri Lal Manmya, *Independent Researcher, India*

Title: Plasmas, Their Applications, Unrealized Ideas

Hayk L. Gevorgyan, *A. I. Alikhanian National Science Laboratory - Yerevan Physics Institute (ANSL YerPhI)*

Title: Penetration Peculiarities of Slow Transverse Electromagnetic Waves into Plasma with Laser Beat Waves Interaction

Hayk L. Gevorgyan, *A. I. Alikhanian National Science Laboratory - Yerevan Physics Institute (ANSL YerPhI)*

Title: Exploration of a SU(2) Electrodynamics Based on Lehnert's Revised Quantum Electrodynamics

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: An Ideal MHD as a System of Coupled Quaternioni Riccati Equations for MHD Power Generator, and Outline of Their Possible Solutions

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: How Many Points are there in a Line Segment? – A new answer from Discrete-Cellular Space viewpoint

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: On Fundamental Flaws of Everett's Many Worlds Interpretation of QM, and Plausible Resolution based on Maxwell-Dirac Isomorphism

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: A Derivation of Maxwell Equations in Quaternion Space

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: London-Proca-Hirsch Equations for Electrodynamics of Superconductors on Cantor Sets

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: A Cellular Automaton Molecular Model based on Wave Equation: An Alternative to Cellular Automata QM

Victor Christianto, *Malang Institute of Agriculture (IPM), Malang, Indonesia*

Title: Neutral Argon Plasma for the Laparoscopic Treatment of Endometriosis

Ceana H. Nezhat, *MD, FACS, FACOG, Fellowship Director, Nezhat Medical Center, Medical Director of Training and Education, Northside Hospital, Adjunct Professor of Gynecology & Obstetrics, Emory University (Atlanta, Georgia, USA)*

Title: Scarless Closed Aproach "Serdev Suture" Lifts on Face and Body

Nikolay Serdev, *New Bulgarian University, Bulgaria*

Title: Plasma Treatment of Black Phosphorus Flakes

Xue-Feng Yu, *Center of Biomedical Materials and Interfaces, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China*

Title: The Effect of Tb3+ Ions Concentration on the Morphology, Structure and Photoluminescence of $Gd_2O_2SO_4:Tb^{3+}$ Phosphor obtained by Thermal Decomposition of Sulfate Hydrated

R.V. Rodrigues, *Institute of Chemistry, University of São Paulo – Brasil*

Title: The Mechanism of Solar Cosmic Ray Acceleration in the Solar Flare and Propagation in the Interplanetary Space

I. M. Podgorny, *Institute for Astronomy RAS, Moscow, Russia.*

Title: Numerical investigation on the effect of parameters about gas on ozone generation as well as sensitivity and rate of production of important species

Lin Sheng Wei, *School of Resources, Environmental and Chemical Engineering, Nanchang University, China*

Title: Cosmic Dark Matter Fractal Field Theory

T. Fulton Johns DDS, *University of Temmessee Health Sciences, Private practice in Knoxville*

Title: Thermionic emission from monolayer and multilayer graphene and its utilization in thermionic converter

Shikha Mishra, *Rakesh P.G. College Pilani, Pilani, India*

Title: A FIXED POINT ITERATIVE METHOD FOR FIFTH ODER BOUNDARY VALUE PROBLEMS IN INDUCTION MOTOR

Bello Nakone, *Usmanu Danfodiyo University,Sokoto Nigeria*

Title: Electron injection at nonrelativistic shocks of young supernova remnants

Jacek Niemiec, *Institute of Nuclear Physics Polish Academy of Sciences, Kraków, Poland*

Title: Stability of the collinear points with perturbing forces in the relativistic R3BP

Aminu Abubakar Hussain , *Department of Mathematics, Faculty of Science, Ahmadu Bello University, Zaria, Nigeria*

Title: Coupled low-frequency electrostatic drift and ion-acoustic waves propagated through (e-p-i) plasma with sheared ion flow

M. Abedi-Varaki, *University of Guilan, Rasht 41335-1914, IR*

Title: Apokamp discharge phenomenon: laboratory studies and unexpected application for atmospheric physics

Eduard A. Sosnin, *Institute of High Current Electronics, 2/3 Akademichesky ave., 634055 Tomsk, Russia*

Title: Global Positioning System Confirmation of a Contradiction between Einstein's Predictions of Time Dilation and Remote Non-Simultaneity

Robert J. Buenker, *University of Wuppertal, Germany*

Title: Plasma - surface interaction: passivation of solid surfaces

J. Raud, *Institute of Physics, University of Tartu, W.Ostwaldi 1, 50411, Tartu, Estonia*

Title: Quantum Hall Effect and Bohr Quantum Mechanics

YinYue Sha, *Dongling Engineering Center, Ningbo Institute of Technology, Zhejiang University, China*

Title: The Physical Constants of the Neutron, Proton, Electron and Photon

YinYue Sha, *Dongling Engineering Center, Ningbo Institute of Technology, Zhejiang University, China*

Title: Motley String or from 10 to 4

George Yury Matveev, *IT consultant, Stockholm, Sweden*

Title: Matter Creation Theory

Gerges Francis Tawdrous, *Student in Faculty of Physics and Mathematics – Peoples' Friendship University- Moscow- Russia*

Title: Source of Energy for Everything of the Universe

Narayan Kumar Bhadra, *L.S.S.S. High School (H.S); Gobardanga, North 24 Parganas, West Bengal, India*

Title: An Analysis on Absolute Velocity

Jiang Yu, *Guangzeng Group, China*

Title: Global Relativistic Plasma Jets with Helical Magnetic Fields - PIC Simulations

Athina Meli, *University of Gent & University of Liege, Belgium*

Title: Process and coating development for PECVD coated plastics products

Rainer Dahlmann, *Institute for Plastics Processing (IKV), RWTH Aachen University, Seffenter Weg 201, 52074 Aachen, Germany*

Title: Physics beyond the Standard Model in Cosmological Plasma

Maxim Yu. Khlopov, *APC laboratory 10, rue Alice Domon et Leonie Duquet 75205 Paris Cedex 13, France*

Title: Quantum dynamics of a hydrogen-like atom in a time-dependent box: Non-adiabatic regime

Saparboy Rakhmanov,*Physics Department, National University of Uzbekistan, Vuzgorodok, 100074, Tashkent, Uzbekistan*

Title: Self-Consistent 1D3V Kinetic Trajectory Simulation Model of Magnetized Plasma Sheath

Roshan Chalise, *Amrit Campus, Tribhuvan Universit, Lainchaur, Kathmandu, Nepal*

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Title: Synthesis, Characterization, Swelling Kinetics And Mechanism Of Chitosan-Starch Hydrogels And Their Crosslinked Counterparts As Potential Organic Photoelectronic Systems

Akakuru.O.U, *Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, Zhejiang, China*

Past Affiliates

Newton Lee
ACM Computers in Entertainment, USA

Yoshihiro Okada
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Swansea University, UK

Linh Dao
University of Texas at Arlington, USA

Dmitry Gaborak
Insomniac Games, USA

Henry Hexmoor
Southern Illinois University, USA

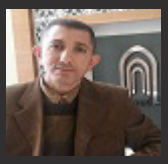
Leonardo Sacht
Federal University of Santa Catarina, Brazil

Jiri Navrátil
CESNET, Czech Republic

David Novick
The University of Texas, USA

Michael J Zyda
USC GamePipe Laboratory, USA

Renowned Speakers



Adel K. Mahmoud

Professor, University of Diyala

Iraq



Athina Meli

Professor, University of Gent & University of Liege

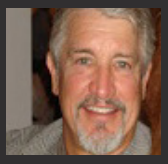
Belgium



Eduard Sosin

Professor,Institute of High Current Electronics

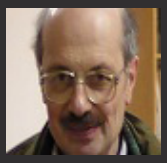
Russia



T. Fulton Johns DDS

Decathlon Dental

United States

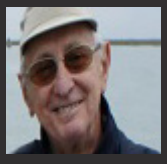


George V. Naidis

Professor, Joint Institute for High Temperatures of the

Russian Academy of Sciences

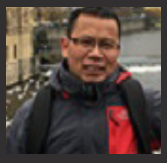
Russia



László Nemes

Professor, Hungarian Academy of Sciences

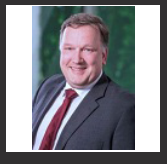
Hungary



Wei Linsheng

Nanchang University

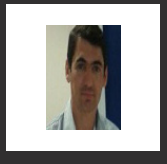
China



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Concordia Chair on AI & Pattern Recognition, Canada

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Michael Zyda
University of Southern California, USA

Tom Bremer
The DAVE School, USA

David Xu
Regent University , USA

Lars Linsen
Westfälische Wilhelms-Universität Münster, Germany

Sean McComber
University of Texas at Dallas, USA

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Monterrey Institute of Technology, Mexico

Paul Fishwick
University of Texas at Dallas, USA

Howard Kaplan
University of South Florida, USA

Ramahan Faulk
InReal, USA

Anton Nijholt
University of Twente, Netherlands

Adam Watkins
Augmented Ideas, LLC, San Antonio, USA

Past Affiliates

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Piotr Didyk
Saarland University, Germany

Frédéric Cointault
Agrosup Dijon, France

Yongjoon Lee
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Juan Carlos Torres
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CEO, Voxel Works Pvt. Ltd, India

Ruck Thawonmas
Ritsumeikan University, Japan

Sheng-Ming Wang
National Taipei University of Technology, Taiwan

Scott Swearingen
University of Texas at Dallas, USA

Ian Parberry
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Rebecca Ruige Xu
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Angela Diamos
Woodbury University, USA

Biju Dhanapalan
Nanyang Technological University, Singapore

Masasuke Yasumoto
Kanagawa Institute of Technology, Japan

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Chinese Academy of Sciences, China

Petyo Budakov
New Bulgarian University, Bulgaria

Yvonne Cao
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Kunihito Hoki
The University of Electro-Communications, Japan

Anna Yankovskaya
Tomsk State University of Architecture and Building, Russia

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University of Central Florida, USA

Nelson Lim
Industrial Light & Magic, Singapore

Matthew Tovar
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McArthur Freeman
University of South Florida, USA

Minhua Eunice Ma
University of Huddersfield, UK

Alexandr Y. Petukhov
Lobachevsky Nizhny Novgorod State University, Russia

Jennifer Coleman Dowling
Framingham State University, USA

City Attractions


CHARLES BRIDGE


Infant Jesus


Mala Strana


Old New Synagogue

City Attractions



