

## Report on the Fourth Edition of NanoWorld Conference, Paris, France

Claudio Nicolini<sup>1-3\*</sup>

<sup>1</sup>Foreign Member of the Russian Academy of Sciences, Moscow and Lomonosov Moscow State University, Russian Federation

<sup>2</sup>President Fondazione ELBA Nicolini, Pradalunga, Bergamo, Italy

<sup>3</sup>President and CEO, NanoWorld High Tech LLC, AZ, USA

**\*Correspondence to:**

Prof. Claudio Nicolini  
President Fondazione ELBA Nicolini  
Pradalunga, Bergamo, Italy  
E-mail: [clannicolini@gmail.com](mailto:clannicolini@gmail.com)

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On March 04-06, 2019 the NanoWorld Journal (NWJ) hosted its fourth edition of NanoWorld Conference (NWC) in Paris, France around the theme “Useful Science and Technology for a Just World”. NWC Paris-2019 has witnessed an unprecedented gathering of technological experts and creative thought leaders from reputed universities, industries, government laboratories and agencies. Experts from around the world gathered to discuss and share the experience of their research outcomes in the field of Nanotechnology and Nanosciences to address problems arising for humanity from energy to environment and natural disasters, cancer to hardware and space which have been growing and frequently underestimated. NWJ under the joint sponsorship of USG-United Scientific Group, a non-profit organization based in USA and Fondazione EL.B.A. Nicolini, Italy hosted the Conference with keynote and featured speakers covering different fields of nanotechnology from reputed academic institutions and cutting edge nanotechnological companies to deliver the transition from laboratories to commercial applications for the benefit of Society. 46 Scientists from 18 countries attended the NWC Paris-2019. It constituted a platform for discussing the ways to advance in finding the solutions through nanotechnology and nanoscience for the problems the world is facing in the key sectors of energy, environment, space, hardware and cancer with the involvement of overall society. The Conference has seen the participation of the world’s leading innovators, experts, scholars from many technology, university and industry sectors, including USA, Europe, Russian Federation and Asia, to add new elements to the existing scientific and commercial developments. The first day of the conference commenced with a Memorial by Professor Nicolini to his dear friend Zhores Alferov, Nobel Physics Prize since 2000 for developments in semiconductor research that have been used in satellite communications and cellular telephones and a close associate since 2008 when becoming Foreign Member Russian Academy of Science, and later from 2014 when becoming Editorial Board member of this NanoWorld Journal after its creation in San Francisco. Alferov has died indeed in Saint Petersburg at the age of 88 years. Subsequently the introductory plenary keynote lecture was held by the same Academician and University Professor Claudio Nicolini permanent NanoWorld Conference Chairman and life NanoWorld Journal Editor-in-Chief, having as title:

“The role of Nanoscience and Nanotechnology for human growth and development in the present worldwide situation in all sectors covered by the NanoWorld Journal and Conference”

The Plenary Symposium session covered subsequently four key topics with four Editorial board Members of the NanoWorld Journal:

- a) “The Production, Manipulation and Analysis of Ultra small Liquid Volumes” by Prof. Christian Riekkel of European Synchrotron Radiation

Facility, France;

- b) “Langmuir-Blodgett Protein Multilayer Technology as a Potential Tool for Structural Discovery” by Dr. Eugenia Pechkova of Genova University, Italy;
- c) “Prospects for Transformation of the International Relationship System and the Role of Leading World Actors: USA, China, EU, Russia” by Dr. Guseletov Boris Pavlovich from Institute of Europe, Russian Academy of Sciences, Russian Federation;
- d) “Nanotech-based propulsion and power for Nanosatellites” by Dr. Davide Nicolini from the Headquarter of the European Society for Space in Paris, France.

Later following are featured presentations from 21 speakers selected worldwide and 13 poster presentations addressing numerous advances in Nanotechnology and Nanosciences. The day was then followed by several invited talks in the fields of Life Science and Nano-Electronics.

The Life Science session was started by Prof. Marguerite Rinaudo, University Grenoble-Alpes, France on “Nanomaterials Based on Chitosan for Biomedical Applications”, followed by Prof. Alexander A. Kamnev of Russian Academy of Sciences, Saratov, Russian Federation.

The session on Nano-Electronics was begun by Prof. Manuel G. Velarde, Complutense University of Madrid, Spain with a talk on “Mechanical Control of Electrons at the Nanolevel and a Possible Field Effect Transistor with Extremely Low Dissipation” followed by Prof. Martin Charlton of University of Southampton, United Kingdom, and Prof. Adnane Abdelghani of National Institute of Applied Science and Technology, Tunisia.

The second day of NWC Paris-2019 started with session of Energy & Environment.

The Energy & Environment session started with invited talk by Prof. Fernando Langa of University of Castilla-La Mancha (UCLM), Spain on “Ternary Organic Solar Cell with Near-IR Absorbing Selenophene-DPP based on Fullerene Acceptor and Efficiency Above 10%” and it was followed by Prof. Eric Buhler from Paris Diderot University, France; Prof. Zhiyu Hu from Shanghai Jiao Tong University, China; Prof. Yamin Leprince-Wang from University of Paris-Est., France and Dr. Stanislav I. Sadovnikov of Russian Academy of Sciences, Russian Federation spoke on the topics such as “Integration of Molecular Machines into Supramolecular Materials”, “Nano Fire and Nanoscale Thermal Energy Harvesting”, “ZnO Nanostructure Based Photocatalysis for Water Purification” and “Thermal Stability of Nanostructured Semiconductor Sulfides” followed by seven other invited and oral presentations.

The Poster session was also held on the second day where two Best Poster Awards were given to two of the presenters: Dr. Charlette Tiloke, Durban University of Technology, South Africa and Ms. Marine Dabert, CNRS Mulhouse Materials Science Institute, France.

The conference close the last days with remarks by the chairman who also provided in meetings a valuable networking opportunity and set the stage to share ideas and valuable concepts. Academician Nicolini indicated that the next Conference will be held in Italy (either Bergamo or Venice) in September 2020 with a close number and format.

The idea was to give students, young researchers/doctors, speakers an opportunity to interact with some eminent people in the field and with each other to discuss, share their knowledge and get exposed to new trends in Nanotechnology. We specially thank our esteemed keynote speakers, featured speakers, students and all the attendees for their participation and cooperation throughout the event.