



**22-23 NOVEMBER, 2024**  
**6TH INTERNATIONAL  
CONFERENCE ON EMERGING  
TECHNOLOGIES: MICRO TO  
NANO (ETMN-2024)**



**Muhammad A. Alam**

Professor

Department of Electrical and Computer Engineering

Purdue University

West Lafayette, IN, USA

Email: [alam@purdue.edu](mailto:alam@purdue.edu)



Professor Alam is the Jai N. Gupta Distinguished professor of Electrical Engineering at Purdue University, where his research focuses on the physics and technology of semiconductor devices. From 1995 to 2003, he was with Bell Laboratories, Murray Hill, NJ, as a Member of Technical Staff in the Silicon ULSI Research Department. Since joining Purdue in 2004, Dr. Alam has published over 300 papers and he is among the top-20 contributors on diverse topics involving transistors, reliability, biosensors, and solar cells. He is a fellow of IEEE, APS, and AAAS. His awards include the 2006 IEEE Kiyo Tomiyasu Medal for contributions to device technology, 2015 SRC Technical Excellence Award for fundamental contributions to reliability physics, and 2018 IEEE EDS Award for educating, inspiring and mentoring students and electron device professionals around the world. More than 450,000 students worldwide have learned some aspect of semiconductor devices from his web-enabled courses.



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**Dr Alain Claverie**

**CNRS Research Director**

**Center for Materials Development and Structural Studies (CEMES - CNRS) ·**

**MEM, 29 Rue Jeanne Marvig, 31055 Toulouse, France**

**Email: [alain.claverie@cemes.fr](mailto:alain.claverie@cemes.fr)**



Alain Claverie obtained his Ph.D. in Physics in 1984 from the University of Toulouse. Appointed Chargé de Recherche CNRS in 1985, on secondment abroad from 88 to 93, notably at the University of Berkeley, Alain's interest ranges from the nucleation and growth of extended defects and precipitates in solid matrices to ion implantation at very low energy and to diffusion anomalies in semiconductors. From 2000 to 2003, he was the coordinator of "NEON" (Nanoparticles for Electronics), a project of the European Commission aimed at engineering nanocrystals to fabricate non-volatile memories. Appointed Director of Research in 2002, he created and directed the nano-materials group of CEMES dedicated to the synthesis, physics, characterization, and integration of nanocrystals, nanotubes, and ultrathin films in devices showing possible applications in the areas of electronics, magnetism, and optics. He is a scientific consultant for 2 companies in the field of materials and processes for ultimate electronics. He was appointed Director of CEMES, a lab of 170 at the forefront of knowledge in the fields of nanoscience and nanomaterials, in January 2011.



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**Prof (Dr) Konov Vitaly Ivanovich**

**Director of the NSC (Natural Sciences Center, Prokhorov General  
Physics Institute, Russian Academy of Sciences, Moscow, Russia**

**Head of the LISP Department, Full member of RAS**

**[vik@nsc.gpi.ru](mailto:vik@nsc.gpi.ru)**



Vitaly I. Konov started his scientific carrier at P.N. Lebedev Physical Institute in 1969. Since 1980 he is with A.M. Prokhorov General Physics Institute, now as a director of Natural Sciences Center. In the period 2004-2008 V.I. Konov served as vice-president of Russian Foundation for Basic Research. For many years he has been a professor of Moscow State University and Nuclear Research University – MEPHI. Member of Russian Academy of Sciences and Fellow member of International Society for Optical Engineering – SPIE.

In 2000 received State Award for science and technology. In 2012 awarded by Order of Merit, in 2023 by Order of A. Nevsky.

Author of several books and book chapters and more than 700 papers in peer-reviewed journals. His activities cover a broad range of topics: laser-matter interaction, material science (in particular carbon), micro and nanotechnologies, plasma physics, bio photonics.