GEC2017 List of Invited Speakers

Igor Adamovich, Ohio State University
Electric Field Measurements by Ps Four-Wave Mixing in Nanosecond Pulse Discharges in Atmospheric Air

Yuri Akishev, SRC RF TRINITI and National Research Nuclear University
Surface streamers on dielectrics and liquids: similarity and difference

Marcelo Ambrosio, Kansas State University
Double ionization of helium by electron and proton impact. A generalized Sturmian functions approach

Stephen J. Buckman, Australian National University
Gaseous Positronics – Cross sections, scattering dynamics and applications for low energy positron interactions with matter

Michael Campanell, Lawrence Livermore National Lab
Hot cathode current mode transitions

Michael Charlton, Swansea University
Fresh Insights and Initiatives in Low Energy Scattering Processes Involving Antiparticles

Xiangjun Chen, University of Science and Technology of China
Fragmentation dynamics of simple molecules by electron collision

Remi Dussart, GREMI - CNRS - University of Orleans
Microdischarge integration on silicon based devices

Denis Eremin, Ruhr University Bochum
Particle-in-cell simulations of instabilities in magnetron plasmas

John Foster, University of Michigan
Understanding the plasma-liquid interface: progress and challenges

Jim Franek, West Virginia University
Single emission-line-ratio techniques for correlating reduced electric field, electron energy distribution, and metastable-atom density in a pulsed argon discharge
Dmitry Fursa, Curtin Univ, Australia
Adiabatic-nuclei calculations of electron and positron scattering from molecular hydrogen and its ion

Andrew Gibson, University of York, UK
Tailoring charged particle distribution functions and chemical kinetics in non-thermal plasmas using multiple frequency excitation

Keizo Kinoshita, Photonics Electronics Technology Research Association (PETRA)
Etching for New Devices

Katsuhisa Kitano, Osaka University
Peroxynitric acid (HOONO2) is the key chemical species of plasma-treated water for effective and safety disinfection

Hae June Lee, Pusan National University
An advanced particle-in-cell simulation parallelized with GPUs for a capacitively coupled plasma reactor

Xinwen Ma, Institute of Modern Physics, Chinese Academy of Sciences
New type of asymmetries in two-center interferences observed in ion-molecular collisions.

Sergey Macheret, Purdue University
Plasmas for Reconfigurable Radio-Frequency Systems

Paul Maguire, University of Ulster
Solvated electrons and plasma - liquid chemistry in plasma exposed microdroplets

N.L.S. Martin, University of Kentucky
Free-free scattering in Potassium: the search for dressed-atom effects

Ladislau Nagy, Babeș-Bolyai University
The effect of projectile wave packet width on the fully differential ionization cross sections

Sergey Pancheshnyi, ABB Switzerland Ltd.
Predictive modeling of air breakdown

Eric Robert, GREMI, CNRS-Université d’Orléans
Plasma jets and electric fields delivery on targets relevant for biomedical applications
Ioan F. Schneider, Université du Havre, Normandie Université
Electron/molecular cation collisions in low-temperature plasmas: from mechanisms to rate coefficients

Nicholas Shuman, Air Force Research Laboratory-Albuquerque
Mutual neutralization of atomic species

Svetlana Starikovskaia, CNRS, Ecole Polytechnique LPP
Pulsed nanosecond discharges at high specific energy density

Francesco Taccogna, CNR-Nanotec
Multi-dimensional PIC modeling of crossed-fields low temperature plasma devices

Jannis Teunissen, KU Leuven, Belgium
Modeling streamer discharges in strong magnetic fields: from particle to fluid

Satoshi Uchida, Tokyo Metropolitan University
Numerical investigation of interactions between reactive oxygen species and biological membrane in atmospheric nonequilibrium plasma with molecular dynamics

Mingmei Wang, TEL Technology Center, America, LLC

Klaus-Dieter Weltmann, Leibniz Institut for Plasma Science and Technology
Decontamination, sterilization and therapy by plasma sources in different applications