



Sunday, 6-12-2020	11:00- 11:10 (SGT)	<b>ICOPS- Opening</b>							
	11:10-11:55 (SGT)	<b>Plenary 1 - Monica Blank</b>							
	11:55 - 12:40 (SGT)	<b>Plenary 2 - Y Y Lau</b>							
	13:00-15:00 (SGT)	<a href="#">D1M1-TA1.1</a>	<a href="#">D1M2-TA2.1</a>	<a href="#">D1M3-TA3.1</a>	<a href="#">D1M4-TA4.1</a>	<a href="#">D1M5-TA5.1</a>	<a href="#">D1M6-TA6.1</a>	<a href="#">D1M7-TA7.1 + TA7.2</a>	<a href="#">D1M8-TA8.1</a>
	20:00- 22:00 (SGT)	<b>Poster Session 1</b>							
	22:00-24:00 (SGT)	<a href="#">D1N1-TA1.1</a>	<a href="#">D1N2-TA2.2 + TA2.1</a>	<a href="#">D1N3-TA3.1</a>	<a href="#">D1N4-TA4.1</a>	<a href="#">D1N5-TA5.1</a>	<a href="#">D1N6-TA6.1</a>	<a href="#">D1N7-TA7.2</a>	<a href="#">D1N8-TA8.2 + TA8.7</a>

Monday, 7-12-2020	11:00-11:45 (SGT)	<b>Plenary 3 - Yitzhak Maron</b>							
	11:45 - 12:30 (SGT)	<b>Plenary 4 - Shuyan Xu</b>							
	13:00-15:00 (SGT)	<a href="#">D2M1-TA1.2</a>	<a href="#">D2M2-TA2.3</a>	<a href="#">D2M3-TA3.2</a>	<a href="#">D2M4-TA4.2 + TA4.3</a>	<a href="#">D2M5-TA5.1</a>	<a href="#">D2M6-TA6.1</a>	<a href="#">D2M7-TA7.3</a>	<a href="#">D2M8-TA8.3</a>
	20:00- 22:00 (SGT)	<b>Poster Session 2</b>							
	22:00-24:00 (SGT)	<a href="#">D2N1-TA1.2</a>	<a href="#">D2N2-TA2.3</a>	<a href="#">D2N3-TA3.3</a>	<a href="#">D2N4-TA4.5</a>	<a href="#">D2N5-TA5.2</a>	<a href="#">D2N6-TA6.3</a>	<a href="#">D2N7-TA7.3</a>	<a href="#">D2N8-TA8.4</a>

Tuesday, 8-12-2020	11:00-12:30 (SGT)	<b>Awards Presentation</b>							
	13:00 -13:45 (SGT)	<b>Women in Engineering (WIE) - Jacky Ying</b>							
	14:00-15:00 (SGT)	<b>Young Professionals Networking Symposium (YPNS@ICOPS2020)</b>							
	20:00- 22:00 (SGT)	<b>Poster Session 3</b>							
	22:00 - 24:00 (SGT)	<a href="#">D3N1-TA1.2</a>	<a href="#">D3N2-TA2.4</a>	<a href="#">D3N3-TA3.3</a>	<a href="#">D3N4-TA4.6</a>	<a href="#">D3N5-TA5.2</a>	<a href="#">D3N6-TA5.4</a>	<a href="#">D3N7-TA7.4</a>	<a href="#">D3N8-TA8.4</a>

Wednesday, 9-12-2020	11:00 - 13:00 (SGT)	<a href="#">D4M1-TA1.3</a>	<a href="#">D4M2-TA2.5</a>		<a href="#">D4M4-TA4.6</a>	<a href="#">D4M5-TA5.2</a>		<a href="#">D4M7-TA7.4</a>	<a href="#">D4M8-TA8.5</a>
	13:30 -14:15 (SGT)	<b>Plenary 5 - K D Weltman</b>							
	14:15 - 16:00 (SGT)	<b>Plenary 6 - Michael Johnston</b>							
	20:00 - 22:00 (SGT)	<b>Poster Session 4</b>							
	22:00-24:00 (SGT)	<a href="#">D4N1-TA1.4+TA1.1</a>	<a href="#">D4N2-TA2.7</a>		<a href="#">D4N4-TA4.6 + TA4.7</a>	<a href="#">D4N5-TA5.3</a>	<a href="#">D4N6-TA5.4</a>	<a href="#">D4N7-TA5.5</a>	<a href="#">D4N8-TA8.6</a>

Thursday, 10-12-2020	11:00-11:45 (SGT)	<b>Plenary 7 - Rodney Mason</b>							
	11:45 - 12:30 (SGT)	<b>Plenary 8 - Deng Jianjun</b>							
	13:00-15:00 (SGT)	<a href="#">D5M1-TA1.5+TA1.1</a>	<a href="#">D5M2-TA2.7</a>	<a href="#">D5M3-TA2.6</a>	<a href="#">D5M4-TA4.4</a>	<a href="#">D5M5-TA5.4</a>	<a href="#">D5M6-TA5.5</a>		<a href="#">D5M8-TA8.7</a>
	20:00- 22:00 (SGT)	<b>Poster Session 5</b>							
	22:00-24:00 (SGT)	<a href="#">D5N1-TA1.6</a>				<a href="#">D5N5-TA5.4</a>	<a href="#">D5N6-TA5.5</a>		<a href="#">D5N8-TA8.8</a>

### Technical Areas

<p><b>TA 1 Basic Processes in Fully and Partially Ionized Plasmas</b></p> <ul style="list-style-type: none"> <li>1.1 Basic Phenomena</li> <li>1.2 Computational Plasma Physics</li> <li>1.3 Space Plasmas</li> <li>1.4 Partially ionized Plasmas</li> <li>1.5 Dusty Plasmas and Strongly Coupled Plasmas</li> <li>1.6 Plasma Chemistry</li> </ul>	<p><b>TA 4 High Energy Density Plasmas and Applications</b></p> <ul style="list-style-type: none"> <li>4.1 Fusion (Inertial, Magnetic and Alternate Concepts)</li> <li>4.2 Particle Acceleration with Laser and Beams</li> <li>4.3 Radiation Physics &amp; X-ray Lasers</li> <li>4.4 High Energy Density Matter</li> <li>4.5 Laser Produced Plasmas</li> <li>4.6 Fast Z pinches</li> <li>4.7 Plasma Material Interactions</li> </ul>	<p><b>TA 7 Pulsed Power and Other Plasma Applications</b></p> <ul style="list-style-type: none"> <li>7.1 Insulation and Dielectric Breakdown</li> <li>7.2 Opening and Closing Switches</li> <li>7.3 Generators and Applications</li> <li>7.4 Compact Pulsed Power and Applications</li> </ul>
<p><b>TA 2 Microwave Generation and Plasma Interactions</b></p> <ul style="list-style-type: none"> <li>2.1 Intense Beam Microwave Generation</li> <li>2.2 Fast-Wave Devices</li> <li>2.3 Slow-Wave Devices</li> <li>2.4 Vacuum Microelectronics</li> <li>2.5 Codes and Modeling</li> <li>2.6 Non-Fusion Microwave Systems</li> <li>2.7 Microwave Plasma Interaction</li> </ul>	<p><b>TA 5 Industrial, Commercial and Medical Plasma Applications</b></p> <ul style="list-style-type: none"> <li>5.1 Nonequilibrium Plasma Applications</li> <li>5.2 High-Pressure and Thermal Plasma Processing</li> <li>5.3 Plasma Thrusters</li> <li>5.4 Environmental and Industrial Applications</li> <li>5.5 Medical and Biological Applications</li> </ul>	<p><b>TA 8 Terahertz Sources, Radiation and Applications</b></p> <ul style="list-style-type: none"> <li>8.1 THz Spintronics</li> <li>8.2 THz Bio</li> <li>8.3 THz Communication</li> <li>8.4 THz Optics</li> <li>8.5 THz Metamaterials</li> <li>8.6 THz Spectroscopy and Imaging</li> <li>8.7 THz Electronic Devices</li> <li>8.8 Quantum Cascade Lasers</li> </ul>
<p><b>TA 3 Charged Particle Beams and Sources</b></p> <ul style="list-style-type: none"> <li>3.1 Plasma, Ion and Electron Sources</li> <li>3.2 Intense Electron Ion Beams</li> <li>3.3 Advanced concepts, novel materials, and new applications</li> </ul>	<p><b>TA 6 Plasma Diagnostics</b></p> <ul style="list-style-type: none"> <li>6.1 Optical, X-ray and Microwave Diagnostics</li> <li>6.2 Particle Diagnostics</li> <li>6.3 Electrical (Probe) Diagnostics</li> </ul>	



**Day 1 - 6 December 2020****PARALLEL SESSIONS****D1M1-TA1.1****SC: Richard Sydora**

TA1-S1-019 - A Smolyakov

Title: INSTABILITIES, STRUCTURES AND TRANSPORT IN PARTIALLY MAGNETIZED EXB PLASMAS

(Invited Talk - 30 min)

TA1-S1-008 - Yong-Xin Liu

Title: BREAKDOWN PROCESS OF A CAPACITIVELY COUPLED RF DISCHARGE IN ARGON

(15 min)

TA1-S1-040 - Sayan Biswas

Title: PARAMETRIC INVESTIGATION OF NANO-SECOND PULSED DISCHARGE AND BREAKDOWN BEHAVIOR AT HIGH-PRESSURE FOR PIN-TO-PIN CONFIGURATION

(15 min)

TA1-S1-061 - RIDIP SARMA

Title: INSTABILITY INDUCED MODULATION OF SOLITONS IN A LINEAR AND NONLINEAR REGIME OF STRONGLY DISPERSIVE POSITRON BEAM DRIVEN PLASMA

(15 min)

TA1-S1-065 - ANIS S BAKRI

Title: CHARACTERIZATION OF GAN/ALN ON SI USING CONVENTIONAL RF MAGNETRON SPUTTERING

(15 min)

TA1-S1-067 - Shawn W Tang

Title: SPIKY ELECTRIC POTENTIAL STRUCTURES IN FLUX ROPE EXPERIMENTS

(15 min)

**D1M2-TA2.1****SC: Edl Schamiloglu**

TA2-S1-002 - Zhaoyun Duan

Title: RECENT ADVANCES IN INTENSE MICROWAVE GENERATION USING METAMATERIALS

(Invited Talk - 30min)

TA2-S1-016 - Dian Zhang

Title: PROGRESS IN HIGH POWER MILLIMETER WAVE SOURCES

(Invited Talk - 30min)

TA2-S1-017 - Edl Schamiloglu

Title: RECENT ADVANCES ON THE MAGNETRON WITH DIFFRACTION OUTPUT

(15 Min)

TA2-S1-007 - Alena Rostuntsova

Title: FORMATION OF MICROWAVE SOLITONS TRAINS DUE TO MODULATION INSTABILITY UNDER CYCLOTRON RESONANCE INTERACTION OF INITIALLY RECTILINEAR ELECTRON BEAM WITH BACKWARD ELECTROMAGNETIC WAVE

(15 min)

TA2-S1-010 - Patrick Forbes John Booske

Title: EXPERIMENTAL STUDIES OF A METAMATERIAL-ENHANCED RESISTIVE WALL AMPLIFIER\*

(15 min)

TA2-S1-005 - Arti Hadap

Title: SHEET BEAM DRIVEN METAMATERIAL BACKWARD WAVE OSCILLATOR

(15 min)

TA2-S1-023 - Kazuki Nagao

Title: MEASUREMENT AND BEHAVIOR ANALYSIS OF MODULATED BEAM CURRENT IN A VIRTUAL CATHODE OSCILLATOR

(15 min)

**D1M3-TA3.1****SC: Yee Sin Ang**

<p>TA3-S1-053 - Juncong She  Title: TIPS-BASED INTEGRATED FIELD ELECTRON EMISSION SOURCES AND THE POTENTIAL APPLICATIONS  (Invited Talk - 30min)</p>
<p>TA3-S1-008 - wei yang  Title: SILICON OXIDE BASED ON-CHIP ELECTRON SOURCES  (15min)</p>
<p>TA3-S1-018 - Meytal Siman-Tov  Title: GENERATION OF SPACE CHARGE SELF-OSCILLATIONS IN A VACUUM DIODE  (15min)</p>
<p>TA3-S1-037 - Thuc Bui  Title: RECENT ADVANCES IN BEAM OPTICS ANALYZER  (15min)</p>
<p>TA3-S1-048 - Kristinn Torfason  Title: EFFECTS OF SURFACE INHOMOGENEITIES IN FIELD AND THERMAL-FIELD EMISSION  (15min)</p>
<p>TA3-S1-050 - Palak Jain  Title: ESTIMATION OF PLASMA ELECTRON DENSITY INSIDE THE RADIO FREQUENCY INDUCTIVELY COUPLED DRIVER OF SPIDER  (15min)</p>
<p>TA3-S1-054 - Abhijit Jassem  Title: A 2-1/2 DIMENSIONAL MODEL OF MIRAM CURVES  (15min)</p>
<p>TA3-S1-038 - Bharat Singh Rawat  Title: CHARACTERISTIC PERFORMANCE OF A MULTI APERTURE ION SOURCE FOR APPLICATION IN ION THRUSTER AND MATERIAL PROCESSING  (15min)</p>
<p><b>D1M4-TA4.1</b>  <b>SAC: Mary Ann Sweeney</b></p>
<p>TA4-S1-013 - Adam Harvey-Thompson  Title: IMPROVED PERFORMANCE OF MAGNETIZED LINER INERTIAL FUSION EXPERIMENTS WITH HIGH-ENERGY, LOW-MIX LASER PREHEAT CONFIGURATIONS  (Invited Talk - 30min)</p>
<p>TA4-S1-014 - Ji Yan  Title: THE INFLUENCE OF DRIVEN ASYMMETRY ON YIELD DEGRADATION IN TRIPLE-SHAPE INDIRECT DRIVE IMPLOSION ON THE 100KJ LASER FACILITY  (Invited Talk - 30min)</p>
<p>TA4-S1-011 - Matteo Barbarino  Title: IAEA'S FUSION RESEARCH ACTIVITIES  (15min)</p>
<p>TA4-S1-016 - Zhongjing Chen  Title: MEASUREMENT OF THE HOT-SPOT SELF-EMISSION IMAGES AND ASYMMETRY TUNING BY VARYING BEAM CONE FRACTION  (15min)</p>
<p>TA4-S1-019 - Uri Shumlak  Title: SHEARED-FLOW-STABILIZED Z PINCH AS A COMPACT FUSION DEVICE  (15min)</p>
<p>TA4-S1-020 - Jeremy Chittenden  Title: MAGNETISATION EFFECTS IN INDIRECT DRIVE INERTIAL CONFINEMENT FUSION  (15min)</p>
<p><b>D1M5-TA5.1</b>  <b>SC: Xinpei Lu</b></p>

<p>TA5-S1-045 - Deanna Lacoste  Title: PLASMA-ASSISTED COMBUSTION ABOVE ATMOSPHERIC PRESSURE: CHALLENGES AND OPPORTUNITIES  (Invited Talk - 30min)</p>
<p>TA5-S1-047 - Gregor Primc  Title:ADVANCED TECHNOLOGIES FOR INDUSTRY 4.0: A CHALLENGE FOR PLASMA SCIENTISTS  (Invited Talk - 30min)</p>
<p>TA5-S1-002 - Xinpei Lu  Title: A PLASMA JET ARRAY DEVICE FOR TRANSDERMAL DRUG DELIVERY  (15min)</p>
<p>TA5-S1-003 - Miran Mozetic  Title: SO2 PLASMA AS AN EXTENSIVE SOURCE OF UV RADIATION  (15min)</p>
<p>TA5-S1-016 - Shuqun Wu  Title: HIGH-ELECTRON-DENSITY MICROPLASMA AND ITS POTENTIAL APPLICATION IN TERAHERTZ FILTER  (15min)</p>
<p>TA5-S1-054 - Renwu Zhou  Title: WHERE PHYSICS MEETS (BIO-)CHEMISTRY: REACTIVE PLASMAS FOR SUSTAINABLE PROCESSING AND ACTIVATION  (15 min)</p>
<p><b>D1M6-TA6.1</b>  <b>SC: Juergen ROEPCKE</b></p>
<p>TA6-S1-028 - Chunlei Feng  Title: LASER SPECTROSCOPIC DIAGNOSIS OF ACTIVE SPECIES IN ATMOSPHERIC DISCHARGE PLASMA  (Invited Talk - 30min)</p>
<p>TA6-S1-006 - Sivanandan Harilal  Title: LASER-INDUCED FLUORESCENCE SPECTROSCOPIC ANALYSIS OF U AND PU PLASMAS  (15min)</p>
<p>TA6-S1-010 - wanlian li  Title: WATER EVAPORATION IN PLASMA-LIQUID INTERACTION AND ITS EFFECTS ON AQUEOUS SPECIES PRODUCTION  (15min)</p>
<p>TA6-S1-013 - XING ZHANG  Title: THE ADVANCED X-RAY IMAGING TECHNIQUES WITH A HIGH SPATIAL RESOLUTION FOR THE ICF IMPLOSION DIAGNOSTICS ON THE 100KJ LASER FACILITY  (15min)</p>
<p>TA6-S1-016 - hongbin ding  Title: LASER SPECTROSCOPIC DIAGNOSIS ON NON-EQUILIBRIUM PLASMAS  (15min)</p>
<p>TA6-S1-022 - Ziyao Jie  Title: TEMPERATURE DISTRIBUTION AND MEASUREMENT OF ATMOSPHERIC AIR MICROWAVE PLASMA  (15min)</p>
<p>TA6-S1-023 - Shiyang Huang  Title: GAS TEMPERATURE MEASUREMENTS AND IMAGING ANALYSIS IN ATMOSPHERIC-PRESSURE MICROWAVE AIR INDUCED PLASMA TORCH  (15min)</p>
<p><b>D1M7-TA7.1 + TA7.2</b>  <b>SC: Frank Hegeler</b></p>
<p>TA7-S1-002 - Zheng Zhao  Title: VOLUME AND SURFACE MEMORY EFFECTS ON THE REPETITIVELY PULSED SURFACE STREAMER DISCHARGE IN HIGH PRESSURE NITROGEN  (15min)</p>

<p>TA7-S1-015 - Micah LaPointe  Title: ELECTRICAL BREAKDOWN THRESHOLD OF INSULATED AND BARE COPPER CONDUCTORS UNDER LIGHTNING EXCITATION  (15min)</p>
<p>TA7-S1-016 - Ivan Aponte  Title: A STUDY ON THE CONTRIBUTING FACTORS OF RF BREAKDOWN IN ATMOSPHERIC AIR*  (15min)</p>
<p>TA7-S1-020 - Chris Williamson  Title: BREAKDOWN OF COMPOSITE ESTER-POLYMER INSULATION UNDER LIGHTNING IMPULSE STRESS  (15min)</p>
<p>TA7-S1-021 - David Sirajuddin  Title: POWER FLOW SIMULATIONS OF THE Z ACCELERATOR USING EMPIRE  (15min)</p>
<p>TA7-S2-010 - Hongyu Dai  Title: RESEARCH ON THE ABLATION OF MULTIPLE ALLOY ELECTRODES UNDER THE EFFECT HUNDREDS KA PULSED ARC  (15min)</p>
<p>TA7-S2-014 - Jiaqi Yan  Title: EXPERIMENTAL STUDY ON SEALED-OFF DOUBLE-GAP PSEUDOSPARK SWITCHES  (15min)</p>
<p><b>D1M8-TA8.1</b>  <b>SC: Rohit Medwal</b></p>
<p>TA8-S1-003 - MAKOTO NAKAJIMA  Title: ULTRAFAST SPIN SPECTROSCOPY AND CONTROL IN THE MAGNETIC MATERIALS BY TERAHERTZ PULSES  (Invited Talk - 30min)</p>
<p>TA8-S1-007 - Yasuhiro Fukuma  Title: SPIN TO CHARGE CONVERSION FOR TEREHRTZ SPINTRONICS  (Invited Talk - 30min)</p>
<p>TA8-S1-008 - Masahiko Tani  Title: TERAHERTZ EMISSION PROPERTIES FROM FE/PT METALLIC SPINTRONIC HETERO-STRUCTURES  (Invited Talk - 30min)</p>
<p>TA8-S1-001 - Fei Fan  Title: THE NONRECIPROCAL MANIPULATION OF TERAHERTZ WAVE BASED ON MAGNETO-OPTIC METASURFACE  (15min)</p>
<p>TA8-S1-004 - Piyush Agarwal  Title: OPTICAL HEATING MEDIATED RECONFIGURABLE TERAHERTZ SPINTRONIC EMITTERS  (15min)</p>
<p><b>D1N1-TA1.1</b>  <b>SC: A. Smolyakov</b></p>
<p>TA1-S1-049 - Richard Sydora  Title: DRIFT-ALFVEN FLUCTUATIONS AND TRANSPORT IN MULTIPLE INTERACTING MAGNETIZED ELECTRON TEMPERATURE FILAMENTS  (Invited Talk - 30 min)</p>
<p>TA1-S1-022 - Denis Eremin  Title: NUMERICAL MODELING OF RF MAGNETRON DISCHARGES  (15 min)</p>
<p>TA1-S1-031 - Genia Vogman  Title: INVESTIGATING TRANSPORT PROPERTIES OF LOW-BETA EXB PLAMAS USING HIGH-ORDER CONTINUUM KINETIC SIMULATIONS  (15 min)</p>

TA1-S1-060 - Sarah Lang Title: THEORETICAL EXAMINATION OF ELECTRON EMISSION FROM LIQUIDS TO GASES (15 min)
TA1-S1-064 - J Malayter Title: CALCULATIONS OF WORK FUNCTION AS A FUNCTION OF SURFACE ROUGHNESS PERIOD AND SHAPE (15 min)
TA1-S1-068 - Shahriar Mirpour Title: THE ROLE OF HYDROMETEORS IN LIGHTNING INCEPTION: AN EXPERIMENTAL EVALUATION (15 min)
TA1-S1-057 - Sandeep Kumar Title: SELF ACTION EFFECTS OF MULTI GAUSSIAN LASER BEAMS IN THERMAL QUANTUM PLASMA (15 min)
<b>D1N2-TA2.2 + TA2.1</b> <b>SC: Kimberley Nichols</b>
TA2-S2-018 - Chao-Hai Du Title: STUDY OF BROADBAND-FREQUENCY-TUNING THZ GYROTRONS (Invited Talk - 30 min)
TA2-S2-020 - Tsun Hsu Chang Title: BROADBAND, TERAHERTZ, FREQUENCY-TUNABLE, REFLECTIVE GYROTRON (Invited Talk - 30)
TA2-S2-006 - Hsin Yu Yao Title: START-OSCILLATION BEHAVIORS OF THE TM-MODE GYROTRON (15 min)
TA2-S2-008 - Naum Ginzburg Title: PROJECT OF POWERFUL LONG-PULSE BRAGG FEL OF SUB-THZ TO THZ-BAND: DESIGN AND SIMULATIONS (15 min)
TA2-S2-010 - Xiaotong Guan Title: STUDY ON A 0.22-THZ GYROTRON TRAVELING WAVE AMPLIFIER BASED ON CONFOCAL WAVEGUIDE (15 min)
TA2-S1-022 - Mae Almansoori Title: COMBINING EXTREME VALUES THEORY AND SURROGATE MODELLING FOR THE STUDY OF A VIRCATOR (15mins)
<b>D1N3-TA3.1</b> <b>SC: Juncong She</b>
TA3-S1-055 - Yee Sin Ang Title: PHYSICS OF ELECTRON EMISSION FROM TWO-DIMENSIONAL NANOMATERIALS (Invited Talk - 30min)
TA3-S1-064 - John Leopold Title: SQUEEZING A MAGNETIZED RELATIVISTIC ELECTRON BEAM USING A SPLIT CATHODE (15min)
TA3-S1-066 - Adam Darr Title: NEXUS THEORY: ELECTRON EMISSION REGIME TRANSITIONS ACROSS LENGTH, PRESSURE, AND TEMPERATURE SCALES (15min)
TA3-S1-069 - Nikita Gurjar Title: EXPERIMENTAL ANALYSIS OF PLASMA BASED MINIATURIZED SHEET ELECTRON BEAM SOURCE (15min)
TA3-S1-070 - Andrew Sandeman Title: PLASMA CATHODE ELECTRON BEAM FOR HIGH-INTEGRITY MATERIALS PROCESSING (15min)
TA3-S1-071 - Yingbin Zhu Title: SPACE CHARGE LIMITED CURRENT FOR HOT ELECTRON (15min)

<p>TA3-S1-072 - Ioannis Ftilis  Title: DOUBLE PLASMA SHOCK AFTER PINCHING IN TABLE-TOP PLASMA FOCUS DEVICE  (15min)</p>
<p><b>D1N4-TA4.1</b>  <b>SC: Mary Ann Sweeney</b></p>
<p>TA4-S1-018 - Joseph Ralph  Title: PROGRESS IN THE INERTIAL CONFINEMENT FUSION EXPERIMENTAL CAMPAIGN ON THE NATIONAL IGNITION FACILITY  (Invited Talk - 30min)</p>
<p>TA4-S1-021 - Stephanie Miller  Title: LASER GATE EXPERIMENT FOR INCREASING PREHEAT ENERGY COUPLING EFFICIENCY IN MAGNETIZED LINER INERTIAL FUSION (MAGLIF)  (15min)</p>
<p>TA4-S1-023 - Alexander Velikovich  Title: RAYLEIGH-TAYLOR GROWTH OF ISOLATED BUBBLES AND SPIKES IN LASER-DRIVEN FOILS  (15min)</p>
<p>TA4-S1-025 - Stuart Springham  Title: PLASMA FOCUS NEUTRON ENERGY MEASUREMENTS USING ZIRCONIUM AND BERYLLIUM ACTIVATION DETECTORS  (15min)</p>
<p>TA4-S1-033 - Shigeo KAWATA  Title: PHASE-CONTROLLED NON-UNIFORMITY MITIGATION OF FUEL TARGET IMPLOSION IN HEAVY ION INERTIAL FUSION  (15min)</p>
<p>TA4-S1-034 - Mohamed Kandil  Title: NUMERICAL EXPERIMENT ON DUAL-STAGE PLASMA FOCUS  (15min)</p>
<p>TA4-S1-037 - Gabriel Shipley  Title: EXPLORING MAGNETO-RAYLEIGH-TAYLOR INSTABILITY DEVELOPMENT IN SOLID LINER DYNAMIC SCREW PINCHES USING THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC MODELING  (15min)</p>
<p><b>D1N5--TA5.1</b>  <b>SC: Miran Mozetic</b></p>
<p>TA5-S1-049 - Mohamed Chaker  (Invited Talk - 30 min)  PULSED LASER DEPOSITION: A FLEXIBLE TOOL FOR THE SYNTHESIS OF ADVANCED FUNCTIONAL MATERIALS</p>
<p>TA5-S1-027 - Danhua Mei  Title: EFFICIENT CONVERSION OF CO<sub>2</sub> AND CH<sub>4</sub> INTO VALUE ADDED COMPOUNDS THROUGH PLASMA CATALYSIS PROCESS IN A DIELECTRIC BARRIER DISCHARGE REACTOR  (15min)</p>
<p>TA5-S1-033 - Mehrnoush Narimisa  Title: ATMOSPHERIC PRESSURE MICROWAVE PLASMA JET FOR ORGANIC THIN FILM DEPOSITION  (15min)</p>
<p>TA5-S1-039 - Florian Krueger  Title: ICP VS CCP IN HIGH ASPECT RATIO ETCHING OF SiO<sub>2</sub> USING AR/C<sub>4</sub>F<sub>8</sub>/O<sub>2</sub> GAS MIXTURES  (15min)</p>
<p>TA5-S1-040 - Mackenzie Meyer  Title: INTERACTIONS BETWEEN ATMOSPHERIC PRESSURE HUMID HELIUM PLASMAS AND LIQUID WATER DROPLETS  (15min)</p>
<p>TA5-S1-041 - Jordyn Polito  Title: MODELING OF NANOPARTICLE GROWTH AND CHARGING IN FLOWING PLASMAS  (15min)</p>

**D1N6-TA6.1**  
**SC: Tiberiu MINEA**

TA6-S1-036 - Jean-Pierre H. van Helden  
Title: COMPREHENSIVE QUANTITATIVE PLASMA DIAGNOSTIC USING A MID-INFRARED FREQUENCY COMB TO ANALYSE INDUSTRIAL PLASMA PROCESSES  
(Invited Talk - 30min)

TA6-S1-025 - Keekon Kang  
Title: EXPERIMENTAL DEMONSTRATION OF PLASMA ELECTRON DENSITY DIAGNOSIS USING THZ SPECTRAL ENCODING METHOD  
(15min)

TA6-S1-026 - Akash Tarai  
Title: ESTIMATION OF RADIATION DECAY CONSTANT OF LASER PRODUCED BRASS PLASMA FROM ITS EMISSION INTENSITIES  
(15min)

TA6-S1-032 - Claudia Verheyen  
Title: OES OF A CO<sub>2</sub>-AR MICROWAVE DISCHARGE TO SUPPORT MODELLING  
(15min)

TA6-S1-046 - Jaemin Song  
Title: INFLUENCE OF WALL CONDITIONING STATE ON AR PLASMA EMISSION IN A PROCESSING CHAMBER  
(15min)

TA6-S1-048 - Salvador Portillo  
Title: SPECTROSCOPIC INVESTIGATION OF PLASMAS PRODUCED BY VELVET CATHODES  
(15min)

TA6-S1-052 - Mikhail Gromov  
Title: INVESTIGATION OF NO RADICALS AND O ATOMS KINETICS IN PIN-LIQUID NANOSECOND PULSED DISCHARGE BY ACTIVE LASER DIAGNOSTICS  
(15min)

**D1N7-TA7.2**  
**SC: David Wetz**

TA7-S2-019 - Xiaoning Zhang  
Title: THE KEY TECHNIQUES OF PULSE POWER SUPPLY AND ITS APPLICATIONS IN DISCHARGE PLASMA  
(Invited Talk - 30min)

TA7-S2-013 - Hongyu Dai  
Title: TEMPERATURE DISTRIBUTION ON THE ANODE OF GRAPHITE ELECTRODES IN HIGH-CURRENT PULSED ARC WITH DIFFERENT ATMOSPHERE  
(15min)

TA7-S2-018 - Victor Bochkov  
Title: DEVELOPMENT OF HIGH-POWER AND ELECTRONIC VACUUM DEVICES FOR PULSED ELECTROPHYSIC. CURRENT STATUS AND PROSPECTS II  
(15min)

TA7-S2-024 - vinod kumar Gandhi  
Title: STUDY OF ELECTRODE PROFILE EFFECTS IN PRESSURIZED SPARKGAP SWITCHES  
(15min)

TA7-S2-025 - Raymond Allen  
Title: PFL OUTPUT SWITCH OPTIONS FOR GAMBLE III  
(15min)

TA7-S2-030 - Anton Gusev  
Title: A NEW APPROACH FOR TRIGGERING THYRISTORS IN IMPACT-IONIZATION WAVE MODE USING AN AVALANCHE S-DIODE  
(15min)

**D1N8-TA8.2 + TA8.7**  
**SC: Yaxin Zhang**



TA8-S2-001 - CHAO CHANG Title: SIGNAL PROPAGATION IN MYELIN SHEATH AS DIELECTRIC WAVEGUIDE IN THE MID-INFRARED TO TERAHERTZ SPECTRAL RANGE (Invited Talk - 30min)
TA8-S2-009 - Kazunori Serita Title: EXTREMELY SENSITIVE BIO-SENSING USING TERAHERTZ MICROFLUIDIC CHIPS (Invited Talk - 30min)
TA8-S7-015 - Dong Yazhou Title: A 85 TO 170 GHz TERAHERTZ FREQUENCY MULTIPLIER BASED ON META STRUCTURE (15min)
TA8-S7-025 - Diwei Liu Title : High-power terahertz gyrotron and its application in DNP-NMR system (15min)
TA8-S7-026 - Mohammad Samizadeh Nikoo Title: NANOPLASMA-ENABLED PICOSECOND SWITCHES FOR ULTRA-FAST ELECTRONICS AND HIGH-POWER THZ SOURCES (15min)
TA8-S2-002 - yongshan liu Title: LABEL-FREE BIOSENSING BASED ON INTREGRATION OF SPINTRONIC TERAHERTZ EMITTER AND EIT ANALOG METAMATERIAL (15min)
<b>Poster Session - 1</b>
TA1-S1-009 - SAMIRAN DAS Title: DUST-ION ACOUSTIC SOLITARY WAVES IN DUSTY PLASMA WITH CAIRN'S DISTRIBUTED ELECTRONS
TA1-S1-011 - Matthew Hopkins Title: EMPLOYING NANOSCALE SURFACE CHARACTERIZATIONS IN A FIELD EMISSION MODEL
TA1-S1-013 - Haoqin Zhang Title: THE DIFFUSION CHARGING OF NANOMETER AEROSOL PARTICLES
TA1-S1-020 - Priti Singh Title: PRODUCTION OF HYDROGEN PLASMA BY COMPACT ECR SOURCE FOR EFFICIENT VOLUME GENERATION OF H <sup>-</sup> IONS
TA1-S1-023 - RAMESH NARAYANAN Title: ROLE OF BOUNDARY WALL AND ASYMMETRIC ELECTRODES ON BEHAVIOUR OF ANODE GLOW IN PLANAR DC DISCHARGE
TA1-S1-024 - Dong Yang Title: STUDY ON CHARACTERISTICS OF DC CORONA DISCHARGE IN A FLOWING TWO-PHASE MIXTURE
TA1-S1-030 - Jonathan Wurtele Title: THE ROLE OF NONNEUTRAL PLASMA PHYSICS IN ANTIHYDROGEN SYNTHESIS
TA1-S1-032 - Sebastian Wilczek Title: DYNAMICS OF THE ELECTRON TEMPERATURE AND POWER ABSORPTION IN CAPACITIVELY COUPLED RADIO FREQUENCY DISCHARGES
TA2-S1-003 - Huida Wang Title: EXPERIMENTAL INVESTIGATION OF DENSITY BUNCHING AND ITS POWER INFLUENCE IN A RELATIVISTIC BACKWARD WAVE OSCILLATOR WITH LOW MAGNETIC OPERATION
TA2-S1-006 - Alena Rostuntsova Title: SELF-SIMILAR CHARACTER OF SHORT PULSE AMPLIFICATION AND GENERATION BY RECTILINEAR ELECTRON BEA
TA2-S1-015 - Liangjie Bi Title: ANALYSIS OF COUPLED SPACE HARMONICS IN MILLIMETER-WAVE OVERMODED CORRUGATED STRUCTURES WITH FINITE AND INFINITE LENGTH

TA2-S1-020 - Ryota Tanaka Title: CHARACTERISTICS OF OUTPUT MICROWAVE IN REFLECTIVE TRIODE VIRTUAL CATHODE OSCILLATOR WITH ELLIPTICAL ELECTRODES
TA2-S1-021 - Ernesto Neira Title: STATISTICAL STUDY OF THE PERVEANCE IN A VIRCATOR SURROGATE MODEL TO CONSIDER THE PLASMA EXPANSION
TA2-S2-011 - Jiayi Zhang Title: COAXIAL CORRUGATED ELECTROSTATIC WIGGLER FOR FREE ELECTRON LASER
TA2-S3-007 - Ranajoy Bhattacharya Title: PERTURBATIONS IN CROSS-FIELD DEVICES
TA2-S3-012 - Robert Ives Title: A 1.3 GHZ 100 KW ULTRA-HIGH EFFICIENCY KLYSTRON
TA3-S1-013 - Zhiwei Li Title: HIGHLY EFFICIENT HORIZONTAL TUNNEL DIODE ELECTRON SOURCES
TA3-S1-015 - Xianlong Wei Title: ON-CHIP THERMIONIC ELECTRON MICRO-EMITTER ARRAYS BASED ON CARBON NANOTUBE FILMS
TA3-S1-017 - Denis Zolotukhin Title: DEPOSITION OF COMPOSITE MAGNETO-DIELECTRIC COATINGS USING FORE-VACUUM PLASMA-CATHODE ELECTRON SOURCE
TA3-S1-032 - Fangyuan Zhan Title: A NEW MECHANISM OF ELECTRON EMISSION FROM ISLAND METAL FIL BASED ON HORIZONTAL TUNNELING DIODE FORMED IN SUBSTRATE
TA3-S1-039 - Debaprasad Sahu Title: STUDIES ON HYDROGEN PLASMA IN AN ECR BASED LARGE VOLUME CHAMBER
TA3-S1-049 - Kushagra Singhal Title: ANALYSIS OF INTER-ELECTRODE GAP STRUCTURE ON THE GENERATION OF PSEUDOSPARK SOURCED ELECTRON BEAM
TA3-S1-051 - Ágúst Valfell Title: DEVIATION FROM THE 2-D CHILD-LANGMUIR LAW AT THE MICROSCALE
TA3-S1-052 - Troy Powell Title: EFFECTS OF VACUUM IMPEDANCE CHANGES ON MITL FLOW USING 3D ELECTROMAGNETIC PIC SIMULATIONS
TA3-S1-056 - Monika Yadav Title: NONLINEAR PROPAGATION OF Q-GAUSSIAN LASER BEAM IN PLASMAS AND SUBSEQUENT ELECTRON ACCELERATION
TA3-S1-068 - Victor Burdovitsin Title: FOREVACUUM PLASMA ELECTRON SOURCE OF A FOCUSED BEAM BASED ON A HOLLOW CATHODE DISCHARGE IN A LONGITUDINAL MAGNETIC FIELD
TA4-S1-003 - Shuyu Dai Title: IMPACTS OF BOMBARDMENT ENERGY ON HYDROGEN REFLECTION FROM A TUNGSTEN FUZZ SURFACE
TA4-S1-007 - Zhanghu Hu Title: ENHANCED COLLECTIVE STOPPING AND IFT OF ELECTRON BEAMS IN FUSION PLASMAS WITH HEAVY ION SPECIES
TA4-S1-015 - Ji Yan Title: THE EXPERIMENT INVESTIGATION OF LASER-PLASMA INTERACTION OF DIRECT IVE LASER WITH INTENSITY OVER 1015W/CM2 UNDER 200EV RADIATION BACKGROUND ON THE 100KJ LEVEL LASER FACILITY
TA4-S1-022 - Jayesh Ganji Title: MODELING OF FAST WAVE INTERACTION WITH SST-1 TOKAMAK LIKE PLASMA USING GENRAY CODE
TA4-S1-028 - Peter Stoltz Title: BENCHMARKING NON-IDEAL MHD MODELS OF ELECTROTHERMAL EFFECTS
TA4-S1-035 - Ken Uchibori Title: DEVELOPMENT OF 3D FUEL TARGET IMPLOSION SIMULATION CODE IN HEAVY ION INERTIAL FUSION

TA4-S1-036 - Hiroki Nakamura Title: FUEL TARGET INJECTION INTO HEAVY-ION INERTIAL FUSION REACTOR
TA4-S1-039 - LIM LIAN KUANG Title: RADIATION COOLING EFFECT ON THE PLASMA FOCUS PINCH
TA4-S1-043 - Heba Bsharat Title: EFFECTS OF ELECTRODE BIASING ON THE STOR-M TOKAMAK PLASMA
TA5-S1-006 - Xiaotong Guan Title: SURFACE MODIFICATION OF VERTICAL GRAPHENE BY ATMOSPHERIC PRESSURE PLASMA JET (changed to Xiaotong Guan from Hongcai Zhou)
TA5-S1-008 - Latakusum pokharel Title: MODIFICATION OF HYDROPHILICITY OF COTTON USING ATMOSPHERIC PRESSURE DIELECTRIC BARRIER DISCHARGE
TA5-S1-011 - Zhan Shu Title: CATALYST-FREE PLASMA-ASSISTED NITROGEN FIXATION BY DC AIR-GLOW DISCHARGE: EFFECT OF GAS TEMPERATURE
TA5-S1-015 - Xingyu Chen Title: SURFACE CHARGE SUPPRESSION AND SURFACE INSULATION STRENGTH ENHANCEMENT OF EPOXY RESIN VIA PLASMA-ENHANCED MAGNETRON SPUTTERING
TA5-S1-024 - Jumal Ibrahim Title: PLASMA POLYMERISATION OF AMINE THIN COATINGS WITH A SURFACE BARRIER DISCHARGE AT ATMOSPHERIC PRESSURE
TA5-S1-025 - Francesco Di Sabatino Title: INFLUENCE OF NANOSECOND REPETITIVELY PULSED PLASMA DISCHARGES ON THE STABILITY LIMITS OF PREMIXED METHANE SWIRL FLAMES AT ELEVATED PRESSURES
TA5-S1-026 - Ying WANG Title: BIMETALLIC NANOSTRUCTURES FABRICATED BY ATMOSPHERIC MICROPLASMA
TA5-S1-043 - Zane Cohick Title: NON-EQUILIBRIUM MATERIALS PROCESSING USING GHZ SPLIT-RING RESONATOR MICROPLASMA RESONATORS
TA5-S1-057 - Jozef Huran Title: ELECTRON BEAM-PLASMA VACUUM DEPOSITION OF VERY THIN NANOSTRUCTURED CARBON FILMS: PHOTOCATHODE APPLICATION
TA6-S1-045 - Christopher Durot Title: PRELIMINARY RESULTS TOWARD THE BUILD-UP OF LIF-DIP SPECTROSCOPY TO MEASURE ELECTRIC FIELD
TA6-S1-015 - Sungbin Park Title: MEASUREMENT ON TEMPERATURE AND ELECTRICAL CONDUCTIVITY OF AN EXPLODING COPPER WIRE IN WARM DENSE MATTER REGIME
TA6-S1-019 - Ashish Ganguli Title: NOVEL METHODOLOGY FOR CHARACTERIZING NON-LINEAR HARMONICS IN RADIO FREQUENCY DISCHARGES
TA6-S1-024 - Jay Angel Title: ZEEMAN SPECTROSCOPIC DETERMINATION OF MAGNETIC FIELD IN MAGNETIZED PLASMA EXPANDING INTO VACUUM
TA6-S1-027 - Ahmed Elshafiey Title: HYBRID X-PINCH OPTIMIZATION: RADIATIVE COLLAPSE STUDY
TA6-S1-031 - Davide Del Cont Bernard Title: ELECTRIC FIELD MEASUREMENTS IN A PLASMA ASSISTED COMBUSTION BURNER
TA6-S1-033 - Sven Groeger Title: DETERMINATION OF THE PLASMA PARAMETERS OF AN RF-IGNITION SYSTEM IN A HELIUM/NITROGEN MIXTURE
TA6-S1-038 - Robert Beattie-Rossberg Title: MOIRÉ DEFLECTOMETER MEASUREMENTS OF PLASMA GENERATED FROM HIGH ENERGY, HIGH CURRENT FIELD EMISSION CATHODES DRIVEN BY UNM'S LINEAR TRANSFORMER DRIVER

TA6-S1-039 - Sayak Bhattacharjee Title: LOCAL OPTICAL EMISSIVITY IN A STEADY STATE PLASMA CONFINED BY A DIPOLE MAGNET
TA6-S1-040 - Terumasa Ryu Title: VELOCITY-DIAMETER RELATION OF NANOSECOND PULSED STREAMER HEAD IN COAXIAL ELECTRODE
TA6-S1-051 - Kento Kimura Title: DIAGNOSTICS METHOD FOR 2D VELOCITY DISTRIBUTION FUNCTION OF BEAM DEUTERONS USING VISIBLE LIGHT SPECTRA OF ENERGETIC 3HE IN DEUTERIUM PLASMAS
TA7-S1-003 - Zheng Zhao Title: PERIODICAL DISCHARGE MODE TRANSITION IN ATMOSPHERIC PRESSURE NITROGEN UNDER REPETITIVE 20 KV/15-NS PULSES
TA7-S1-004 - Ziyi Zhang Title: EFFECTS OF AN EXTERNAL DC MAGNETIC FIELD ON RESONANT MULTIPACTOR BETWEEN TWO DIELECTRIC SURFACES
TA7-S1-008 - LIN YINGYING Title: SYNTHESIS OF METAL/CARBON NANO-COMPOSITE BY GAS/LIQUID DISCHARGE PLASMA UNDER PRESSURE
TA7-S1-014 - Max Flynn Title: ASSESSING THE BREAKDOWN STRENGTH OF INSULATING GASES USING A MULTI-TERM BOLTZMANN EQUATION MODEL
TA7-S1-017 - Jessica Title: A SUPERSONIC UNDERWATER PULSED ACOUSTIC SOURCE
TA7-S2-006 - Yuchen Liu Title: RESEARCH ON THE INITIAL PLASMA PROCESS OF THE LASER-TRIGGERED VACUUM SWITCH
TA7-S2-015 - Jiaqi Yan Title: INVESTIGATIONS OF CURRENT QUENCHING IN PSEUDOSPARK DISCHARGE
TA7-S2-020 - Shen Shou Max Chung Title: PARTICLE-IN-CELL SIMULATION ON SPARK GAP
TA7-S1-019 - Noriyuki Izumi Title: IMPROVEMENT OF EFFICIENCY OF CRASHED SAND PRODUCTION BY UNDERWATER PULSED DISCHARGE (added on 21 Nov)
TA8-S1-002 - Haihui Zhao Title: TOPOLOGICAL INSULATOR SOURCE FOR TERAHERTZ CIRCULAR DICHROISM SPECTROSCOPY
TA8-S1-006 - John Rex Mohan Title: VOLTAGE CONTROLLED MAGNETIZATION DYNAMICS OF PERMALLOY ON PMN-PT (011) SINGLE CRYSTAL
TA8-S2-003 - Yingwei Li Title: EFFECTS OF LOW INTENSITY OF BROADBAND TERAHERTZ RADIATION ON THE GROWTH AND DEVELOPMENT OF NEURONS
TA8-S3-009 - Xianbin Yu Title: NONLINEARITY-AWARE DISCRETE MULTI-TONE TERAHERTZ WIRELESS COMMUNICATIONS ACCELERATED BY PHOTONICS
TA8-S3-010 - Mengyao Qiao Title: BEYOND 100 GBIT/S LENS-FREE PHOTONIC WIRELESS TRANSMISSION OF PS-16QAM-OFDM SIGNALS IN THE 350 GHZ BAND
TA8-S4-005 - Huajie Liang Title: TERAHERTZ PHASE SHIFTING BASED ON HOLE-ROD ARRAY VIA PHOTOCONTROL VANADIUM DIOXIDE
TA8-S4-021 - Wenxin Liu Title: THERMAL CHARACTERISTICS OF MULTI-STAGE DEPRESSED COLLECTOR FOR TERAHERTZ TRAVELING WAVE TUBES
TA8-S4-022 - Jing Yin Title: FRACTIONALLY NON-UNIFORM CODING METASURFACES FOR TERAHERTZ BEAM CONTROL WITH FREQUENCY SWEEPING
TA8-S4-023 - Jing Yin Title: ULTRAFAST SWITCHABLE TERAHERTZ POLARIZATION CONVERSION MODULATOR

TA5-S1-035 - Bruno Caillier

Title: FLAT DIELECTRIC BARRIER DISCHARGE LAMP IN INTERACTION WITH A RESONANT POWER SUPPLY

(added on 24 Nov)

**End of Day 1**

<b>Day 2 - 7 December 2020</b>
<b>PARALLEL SESSIONS</b>
<b>D2M1-TA1.2</b>
<b>SC: Nong Xiang</b>
<p>TA1-S2-008 - A Christlieb (Invited Talk - 30 min) O(N) IMPLICIT-EXPLICIT (IMEX) METHODS FOR NON-IDEAL MHD BASED ON THE METHOD OF LINES TRANSPOSE</p>
<p>TA1-S2-011 - Chengkun Huang (15 min) A PARTICLE-MESH METHOD FOR THE MODELING OF SYNCHROTRON RADIATION FROM ELECTRON BEAMS</p>
<p>TA1-S2-010 - Shirshak Dhali (15 min) SCALING OF NON-THERMAL PLASMA BY USING A TRAVELING ELECTRIC FIELD</p>
<p>TA1-S2-004 - G Bagdasarov (15 min) NUMERICAL STUDY OF CAPILLARY DISCHARGE PLASMADYNAMICS IN 3D</p>
<p>TA1-S2-018 - Ricky Ang (15 min) FRACTIONAL MODEL OF PLASMA OSCILLATION</p>
<p>TA1-S2-019 - Cemre Kusoglu-Sarikaya (15 min) DEVELOPMENT OF TWO-DIMENSIONAL SIMULATION FOR GLOW DISCHARGE DETECTORS</p>
<p>TA1-S2-024 - J T Gudmundsso (15 min) ELECTRON HEATING IN CAPACITIVELY COUPLED DISCHARGES OF COMPLEX CHEMISTRY</p>
<b>D2M2-TA2.3</b>
<b>SC: Shaomeng Wang</b>
<p>TA2-S3-020 - Cunjun Ruan (Invited Talk - 30 min) INVESTATION ON BROAD BANDWIDTH AND HIGH POWER TERAHERTZ TRAVELING WAVE TUBE BASED ON MULIT-MODE AND HIGH-MODE BEAM WAVE INTERACTION</p>
<p>TA2-S3-006 - Philip MacInnes (15 min) SELF-INSULATION OF A HIGH-POWER CHERENKOV OSCILLATOR, OPERATING IN THE X-BAND</p>
<p>TA2-S3-008 - Robert Ives (15 min) LOW COST, HIGH EFFICIENCY RF SOURCES USING MULTIPLE BEAM TRIODES</p>
<p>TA2-S3-018 -Drew Packard (15 min) CONTROLLED HARMONIC FREQUENCY LOCKING IN THE HARMONIC RECIRCULATING PLANAR MAGNETRON</p>
<p>TA2-S3-021-Naum Ginzburg (15 min) GENERATION OF A PERIODIC TRAIN OF ULTRASHORT MICROWAVE PULSES BASED ON PASSIVE MODE LOCKING IN A SCHEME WITH TWO PARALLEL ELECTRON BEAMS</p>
<p>TA2-S3-022-Nicholas Jordan (15 min) INITIAL EXPERIMENTS ON THE RECIRCULATING PLANAR MAGNETRON WITH COAXIAL ALL-CAVITY EXTRACTION</p>
<p>TA2-S3-027-Meiqin liu (15 min) PIC SIMULATIONS OF AN S-BAND SURFACE WAVE MICROWAVE OSCILLATOR USING A TWO-SPIRAL METAMATERIAL STRUCTURE</p>

**D2M3-TA3.2**  
**SC: Zhaoyun Duan**

TA3-S2-001 - Chengkun Huang  
(Invited Talk - 30 min)

PHYSICS OF ELECTRON EMISSION AND BEAM DYNAMICS FROM A SINGLE DIAMOND FIELD EMITTER

TA3-S2-018 - Zhang Jun  
(Invited Talk - 30 min)

INTENSE RELATIVISTIC CYCLOTRON BEAMS AND DISK BEAMS FOR HIGH POWER MILLIMETER WAVE GENERATION

TA3-S2-006 - Cunjun Ruan  
(15min)

DESIGN OF W-BAND PLANAR DISTRIBUTED THREE-BEAM GUN WITH UNIFORM MAGNETIC FOCUSING

TA3-S2-017 - Yee Sin Ang  
(15min)

IMPROVING ELECTRON INJECTION EFFICIENCY IN TWO-DIMENSIONAL SEMICONDUCTOR BY INTERFACE ROUGHNESS

TA3-S2-024 - Stanislav Sinitsky  
(15min)

HIGH-CURRENT ELECTRON BEAM TRANSPORT AND FOCUSING AT THE LINEAR INDUCTION ACCELERATOR

TA3-S2-025 - Aharon Friedman  
(15min)

A NON PERTURBATIVE SOLUTION OF THE VLASOV EQUATION FOR A RELATIVISTIC CHARGED PARTICLE BEAM

**D2M4-TA4.2 + TA4.3**  
**SC: Joseph Strehlow**

TA4-S2-015 - Krishnamurthy Manchikanti  
(Invited Talk - 30 min)

NOVEL FEATURES IN LASER PLASMA INTERACTION: NEUTRAL ATOM ACCELERATION AND ELECTRON GENERATION

TA4-S3-003 - Ying Tsui  
(Invited Talk - 30 min)

ULTRASHORT LASER GENERATED WARM DENSE MATTER - TRANSITION FROM SOLID TO PLASMA

TA4-S2-008 - Feiyu Li  
(15min)

ELECTRON DYNAMICS OF DIRECT LASER ACCELERATION IN A PLASMA CHANNEL

TA4-S2-016 - Andrea Favalli  
(15min)

MULTI-PROBE RADIOGRAPHY WITH LASER-DRIVEN PARTICLE/X-RAY SOURCES

TA4-S2-020 - Daiki Kawahito  
(15min)

ION ACCELERATION AND COLLIMATION DRIVEN BY HIGH INTENSITY LASER FIELD FROM MICRO-TUBE TARGET

TA4-S3-004 - Seong Ling Yap  
(15min)

SOFT X-RAY EMISSION OPTIMIZATION IN PLASMA FOCUS

TA4-S3-005 - SITI NORAYSMIN JAFFAR  
(15min)

DEPOSITION OF CZTS THIN FILM BY HIGH POWER IMPULSE MAGNETRON SPUTTERING

**D2M5-TA5.1**  
**SC: Gregor Primc**

TA5-S1-055 - Dawei Liu

Title: COLD ATMOSPHERIC-PRESSURE PLASMAS IN DERMATOLOGY: SOURCES, REACTIVE AGENTS, AND THERAPEUTIC EFFECTS

(Invited Talk - 30 min)

<p>TA5-S1-042 - Xifeng Wang  Title: SCALING OF ATOMIC LAYER ETCHING OF SiO<sub>2</sub> IN FLUOROCARBON PLASMAS: TRANSIENT ETCHING AND SURFACE ROUGHNESS  (15min)</p>
<p>TA5-S1-051 - Seong Ling Yap  Title: EQUIVALENT DOSE OF ATMOSPHERIC PLASMA JET ON INDUCING CELL PROLIFERATION IN HUMAN FIBROBLAST CELL  (15min)</p>
<p>TA5-S1-053 - Xinhang Song  Title: Active Artificial Material Through s3D Microplasma Photonic Crystals  (15min)</p>
<p>TA5-S1-056 - Jingkai Jiang  Title: TUNING PLASMA PARAMETERS TO CONTROL REACTIVE SPECIES FLUXES TO SUBSTRATES FOR INVESTIGATING PLASMA CATALYSIS  (15min)</p>
<p>TA5-S1-058 - Qiaojue Liu  (15min)  NUMERICAL MODELLING OF THE EFFECT OF APPLIED VOLTAGE IN ATMOSPHERIC PRESSURE AIR DIELECTRIC BARRIER DISCHARGE</p>
<p><b>D2M6-TA6.1</b>  <b>SC: Hongbin DING</b></p>
<p>TA6-S1-037 - Zhanshan Wang  (Invited Talk - 30 min)  EUV AND X-RAY MICROSCOPES FOR PLASMA DIAGNOSTICS</p>
<p>TA6-S1-054 - Jianan Wang  (15min)  LASER-INDUCED FLUORESCENCE ABSOLUTE OH DENSITY AND GAS TEMPERATURE MEASUREMENTS IN A WATER VAPOR BUBBLE MICROSECOND DISCHARGE</p>
<p>TA6-S1-055 - Victorien Bouffetier  (15min)  X-RAY BACKLIGHTER OPTIMIZATION FOR TALBOT-LAU X-RAY DEFLECTOMETRY DIAGNOSTICS OF HIGH INTENSITY LASER EXPERIMENTS</p>
<p>TA6-S1-058 - Kyohei Eguchi  (15min)  MEASUREMENT OF ELECTRON TEMPERATURE AND ELECTRON DENSITY OF PRIMARY STREAMER DISCHARGE BY LASER THOMSON SCATTERING DIAGNOSTICS IN HELIUM GAS</p>
<p>TA6-S1-059 - Tomomasa Murakami  (15min)  ELECTRON TEMPERATURE AND ELECTRON DENSITY MEASUREMENT OF POSITIVE PULSED STREAMER DISCHARGE PLASMA IN HIGH PRESSURE GAS BY LASER THOMSON SCATTERING DIAGNOSTICS</p>
<p>TA6-S1-060 - Zhiyuan Jiang  (15min)  MEASURING SPATIAL DISTRIBUTION OF MAGNETIC FIELDS AROUND COPPER ROD DRIVEN BY HIGH-CURRENT PULSE USING ZEEMAN SPLITTING AND LIBS</p>
<p>TA6-S1-061 - Thibault Dubois  (15min)  ELECTRON PROPERTY ANISOTROPY IN CROSS FIELD DISCHARGES</p>
<p><b>D2M7-TA7.3</b>  <b>SC: Weihua Jiang</b></p>
<p>TA7-S3-004 - Tatiana Vasilieva  (Invited Talk - 30 min)  HYBRID PLASMAS GENERATION INSIDE DIELECTRIC CONTAINERS</p>



<p>TA7-S3-013 - WENQIU LI (15min) OPTIMAL ENHANCED RADIATION OF A COLLISIONAL PLASMA LAYER COATED ELECTRICALLY SMALL CYLINDRICAL METALLIC ANTENNA</p>
<p>TA7-S3-016 - Tae Uk Kang (15min) PARAMETER INVESTIGATION AND ANALYSIS FOR IMPROVING PLASMA CONDUCTIVITY IN THE MHD GENERATION</p>
<p>TA7-S3-021 - GeunHyeong Lee (15min) THE ELECTROMAGNETIC VARIABLE ANALYSIS OF 10 KW MHD GENERATOR</p>
<p>TA7-S3-029 - Itay Gissis (15min) LABORATORY ASTROPHYSICS – COLD ABSORPTION</p>
<p>TA7-S3-031 - Joshua Williams (15min) SOLID-STATE, HIGH-VOLTAGE PULSE GENERATOR WITH MICROCONTROLLER CONTROL</p>
<p>TA7-S3-035 - Junxiang Yang Title: SMART RESPONSE PULSED-POWER GENERATOR BASED ON SOLID-STATE LTD (15min)</p>
<p><b>D2M8-TA8.3</b> <b>SC: Xianbin Yu</b></p>
<p>TA8-S3-004 - Bo Zhang Title: 340GHZ HIGH SPEED COMMUNICATION SYSTEM BASED ON SOLID STATE TRANSCEIVER (Invited Talk - 30 min)</p>
<p>TA8-S3-016 - Tetsuya Kawanishi Title: THZ SEAMLESS NETWORKS FOR FUTURE MOBILE SERVICES (Invited Talk - 30 min)</p>
<p>TA8-S3-002 - Jianjun Ma Title: ATTENUATION OF TERAHERTZ WAVES BY WET SNOW, DRY SNOW AND RAIN (15min)</p>
<p>TA8-S3-012 - Rui Zhang Title: PULSE-BASED INTRA-BODY NANO-COMMUNICATION AT TERAHERTZ AND OPTICAL BANDS (15min)</p>
<p>TA8-S3-017 - Claudio Paoloni Title: SUB-THZ TRAVELING WAVE TUBES FOR NOVEL WIRELESS HIGH CAPACITY NETWORKS (15min)</p>
<p><b>D2N1-TA1.2</b> <b>SC: Nichelle Bennett</b></p>
<p>TA1-S2-014 - Anbang Sun (Invited Talk - 30 min) A COMPUTATIONAL STUDY OF STREAMERS INTERACTING WITH DIELECTRICS</p>
<p>TA1-S2-030 - Shenglong Guo (15 min) A FULLY KINETIC SELF-SIMILAR PARTICLE SIMULATION OF ION THRUSTER DISCHARGE CHAMBER</p>
<p>TA1-S2-048 - Svetlana Avtaeva (15 min) MODELING PROPERTIES OF THE DBD IN AR-S2 MIXTURES USING A 1D FLUID MODEL</p>
<p>TA1-S2-039 - Kameswari DPSP (15 min) DYNAMICS OF COLLINEAR COUNTERPROPAGATING LASER PLASMAS UNDER AMBIENT ATMOSPHERIC CONDITIONS</p>

<p>TA1-S2-041 - Sun Guoxiang (15 min) SIMULATION INVESTIGATIONS ON INITIAL PHASES OF PSEUDOSPARK DISCHARGE WITH EXTERNAL RLC CIRCUIT</p>
<p>TA1-S2-036 - Uri Shumlak (15 min) HIGH-ORDER FINITE ELEMENT METHOD FOR HIGH-FIDELITY PLASMA MODELING</p>
<p>TA1-S2-051 - Nichelle Bennett (15 min) FIRST-PRINCIPLES MODEL OF ELECTRODE PLASMA FORMATION IN MA-SCALE ACCELERATORS</p>
<p><b>D2N2-TA2.3</b> <b>SC: Nick Jordan</b></p>
<p>TA2-S3-034 - Jirun Luo (Invited Talk - 30 min) THEORETICAL RESEARCH ON MEANDER-LINE SLOW-WAVE STRUCTURE USING FIELD-MATCHING METHODS WITH DYADIC GREEN'S FUNCTIONS OF MULTI-LAYERED PLANE MEDIA</p>
<p>TA2-S3-037 - Rebecca Seviour (15 min) EM GENERATION AND AMPLIFICATION VIA FREQUENCY, SPATIAL AND TEMPORAL DISPERSIVE ARTIFICIAL MATERIALS*</p>
<p>TA2-S3-040 - Liang Zhang (15 min) EXTENDED INTERACTION OSCILLATOR DRIVEN BY A PSEUDOSPARK-SOURCED BEAM AT 0.4 THZ</p>
<p>TA2-S3-041 - Tyler Buntin (15 min) EXPLOSIVE EMISSION CATHODE EVALUATION FOR A MAGNETICALLY INSULATED LINE OSCILLATOR</p>
<p>TA2-S3-045 - Jose Rossi (15 min) RESEARCH STATUS ON NONLINEAR TRANSMISSION LINES FOR RF GENERATION</p>
<p>TA2-S3-047 - Simon Foulkes (15 min) METAMATERIAL BASED RF SOURCES</p>
<p>TA2-S3-048 - Henry Freund (15 min) AN ULTRA-HIGH EFFICIENCY MULTI-BEAM IOT</p>
<p><b>D2N3-TA3.3</b> <b>SC: Gennady Shvets</b></p>
<p>TA3-S3-019 - Enam Chowdhury (Invited Talk - 30 min) LIQUID TARGETS FOR NEXT GENERATION LASER-ION ACCELERATOR</p>
<p>TA3-S3-004 - Peng Zhang (15min) TIME-RESOLVED PHOTOELECTRON SPECTROSCOPY BY TWO-COLOR LASERS WITH A DC BIAS</p>
<p>TA3-S3-005 - Xiao Xiong (15min) BOOSTING RESONANT OPTICAL FIELD EMISSION BY ATOMIC-THICK DIELECTRIC COATING</p>
<p>TA3-S3-020 - Cyrus Nejat (15min) MAGNETIC NOZZLE WITH MAGNETIC CONFINEMENT CONFIGURATION</p>
<p>TA3-S3-021 - Meytal Siman-Tov (15min) GENERATION OF PERIODIC BUNCHES FROM A SQUEEZED ELECTRON BEAM IN A RESONANT CAVITY</p>

<p>TA3-S3-022 - Heman Bhuyan  STUDY ON THE DUAL RF PLASMA ENHANCED PULSED LASER DEPOSITION OF TITANIUM NITRIDE THIN FILM  (15min)</p>
<p><b>D2N4-TA4.5</b>  <b>SC: Richard Sydora</b></p>
<p>TA4-S5-011 - Paramel Pattathil Rajeev  (Invited Talk - 30 min)  UNRAVELING LASER-DRIVEN ULTRAFAST PLASMA DYNAMICS INSIDE SOLIDS</p>
<p>TA4-S5-020 - Adam Higginson  (Invited Talk - 30 min)  LASER PULSE PROPAGATION THROUGH UNDER-DENSE PLASMA TARGETS, WITH AND WITHOUT EXTERNAL MAGNETIC FIELDS, AND THE GENERATION OF LASER PLASMA INSTABILITIES</p>
<p>TA4-S5-013 - Genaady Shvets  (Invited Talk - 30 min)  LASER-ION LENS AND ACCELERATOR INSTABILITIES</p>
<p>TA4-S5-009 - Arohi Jain  (15min)  ENHANCED PULSE-COMPRESSION FROM TUNNEL-IONIZED PLASMA INTERACTIONS WITH A LASER PULSE</p>
<p>TA4-S5-015 - Vasily Pozdnyakov  (15min)  TWO-DIMENSIONAL SIMULATIONS OF LASER SHOCK PEENING WITH WATER CONFINEMENT</p>
<p><b>D2N5-TA5.2</b>  <b>SC: Manabu Tanaka</b></p>
<p>TA5-S2-006 - Hae June Lee  (Invited Talk - 30 min)  NUMERICAL MODELING OF NANO POWDER SYNTHESIS USING AN RF PLASMA TORCH</p>
<p>TA5-S2-007 - Yasunori Tanaka  (Invited Talk - 30 min)  DEVELOPMENT OF A TRANSIENT MODEL ON EVAPORATION PROCESS OF FEEDSTOCK PARTICLES INJECTED IN MODULATED INDUCTION THERMAL PLASMAS FOR NANOPARTICLE SYNTHESIS</p>
<p>TA5-S2-008 - Yann Cressault Antoine Sahab  (15min)  MODELLING OF THE NET EMISSION COEFFICIENT TO MODEL RADIATIVE TRANSFER IN HIGH INTENSITY DISCHARGE (HID) LAMPS</p>
<p>TA5-S2-009 - Takayuki Watanabe  (15min)  ANALYSIS OF DISCHARGE CHARACTERISTICS OF WATER THERMAL PLASMA WITH MIST GENERATION BY HIGH-SPEED CAMERA</p>
<p>TA5-S2-012 - Thorben Kewitz  (15min)  STUDY OF THE LOCAL SEGREGATION OF MULTI-COMPONENT POWDERS DURING A PLASMA SPRAY PROCESS</p>
<p><b>D2N6-TA6.3</b>  <b>SC: Thomas Trottenberg</b></p>
<p>TA6-S3-006 - Holger Kersten  (Invited Talk - 30 min)  NON-CONVENTIONAL DIAGNOSTICS FOR THE INVESTIGATION OF A DIFFUSE COPLANAR SURFACE BARRIER DISCHARGE</p>
<p>TA6-S3-007 - Jens Oberrath  (Invited Talk - 30 min)  ON THE MULTIPOLE RESONANCE PROBE</p>

<p>TA6-S3-003 - Thomas Trottenberg (15min) UNDERSTANDING THE FORCE LOW-TEMPERATURE PLASMAS EXERT ON SOLID BOUNDARIES</p>
<p>TA6-S3-005 - SHIVAM GUPTA (15min) DETAILED COLLISIONAL RADIATIVE MODEL FOR LOW-TEMPERATURE NEON PLASMA</p>
<p>TA6-S3-010 - Niharika Dalsania (15min) A NOVEL APPROACH FOR PLASMA CURRENT QUENCH STUDIES VIA SYNTHETIC DATA GENERATION</p>
<p>TA6-S3-011 - Michael Friedrichs (15min) PLANAR MULTIPOLE RESONANCE PROBE: APPROXIMATION OF THE IDEAL ANALYTIC SOLUTION ADAPTED TO THE REAL GEOMETRY</p>
<p>TA6-S2-001 - Ben Ulmen (15min) END-POINT ENERGY DETERMINATION OF ELECTRON BEAMS FROM THE SATURN ACCELERATOR 3-RING PINCHED BEAM DIODE</p>
<p><b>D2N7-TA7.3</b> <b>SC: Rick Spielman</b></p>
<p>TA7-S3-032 - Weihua Jiang Title: SOLID STATE MARX GENERATOR USING BOTH CAPACITIVE AND INDUCTIVE ENERGY STORAGE (Invited Talk - 30 min)</p>
<p>TA7-S3-036 - Njomza Ibrahim Title: A NOVEL SUBNANOSECOND PULSED POWER SYSTEM FOR BIO-MEDICAL APPLICATIONS (15min)</p>
<p>TA7-S3-037 - Gilbert Collins IV Title: ANALYSIS OF LASER-CUT, HYBRID, AND WIRE X-PINCH DYNAMICS AND THEIR USE AS AN X-RAY SOURCE FOR TALBOT-LAU DEFLECTOMETRY USING A 200 KA CURRENT DRIVER (15min)</p>
<p>TA7-S3-038 - Jean Larbaig Title: INVESTIGATING FAST WIDE BAND SEMICONDUCTORS DRIVING USING EITHER FPGA OR MICRO CONTROLLER (15min)</p>
<p><b>D2N8-TA8.4</b> <b>SC: Joseph Vas</b></p>
<p>TA8-S4-044 - Avraham Gover Title: SPONTANEOUS AND STIMULATED SUPERRADIANCE OF BUNCHED ELECTRON BEAMS (Invited Talk - 30 min)</p>
<p>TA8-S4-024 - Feng Lan Title: DIGITALLY STEERABLE TERAHERTZ META-HEMT ANTENNA (Invited Talk - 30 min)</p>
<p>TA8-S4-001 - Yindong Huang Title: COLLISION-INTRODUCED ENHANCEMENT OF ROTATIONAL TRANSITION IN CARBON MONOXIDE BASED PLASMA (15min)</p>
<p>TA8-S4-009 - Jierong Cheng Title: LOW-INDEX 3D-PRINTABLE METAGRATINGS FOR EXTREME BEAM-BENDING AT SUB TERAHERTZ (15min)</p>
<p><b>Poster Session - 2 on Day 2</b></p>
<p>TA1-S1-038 - Dennis Engel Title: IMPROVING THE LUMPED ELEMENT MODEL OF A RADIO FREQUENCY MAGNETRON DISCHARGE</p>

TA1-S1-039 - Zhengshi Chang Title: STUDY ON DISCHARGE CHARACTERISTICS AND PARTICLE DISTRIBUTION OF LOW-PRESSURE CO2 DIELECTRIC BARRIER DISCHARGE
TA1-S1-045 - Rohit Medwal Title: REMOTE PLASMA-ASSISTED SYNTHESIS OF GRAPHENE FOR DEVELOPMENT OF FLEXIBLE BIOSENSORS
TA1-S1-048 - Foivos Antoulinakis Title: A THEORY OF AC CONTACT RESISTANCE
TA1-S1-050 - Rohit Medwal Title: PLASMA ASSISTED HYDROGEN FUNCTIONALIZATION OF GRAPHENE/SI FOR PHOTODETECTION
TA1-S1-063 - RIDIP SARMA Title: ELECTROSTATIC WAVE DYNAMICS IN A DENSE RELATIVISTICALLY DEGENERATE MAGNETISED PLASMA
TA1-S1-066 - Mikhail Viktorov Title: ZEBRA-LIKE PATTERNS IN WHISTLER WAVE EMISSION SPECTRA FROM NONEQUILIBRIUM MIRROR-CONFINED LABORATORY PLASMA
TA1-S1-069 - Mengjun Xie Title: THE INFLUENCE OF MAGNETIC SHIELDING ON THE MAGNETIC FIELD STRUCTURE OF PENNING ION SOURCE
TA2-S3-015 - Xiaoyan Zhang Title: DESIGN OF A 52GHZ STAGGERED DOUBLE VANE SLOW WAVE STRUCTURE BY BUMBLEBEE
TA2-S3-016 - Andong Yue Title: SIMULATION OF AN INDUSTRIAL MAGNETRON USING CATHODE MODULATION
TA2-S3-019 - Andrey Starodubov Title: DESIGN AND DEVELOPMENT OF A V-BAND BACKWARD-WAVE OSCILLATOR BASED ON THE PSEUDOSPARK-SOURCE ELECTRON GUN
TA2-S3-024 - Nicholas Jordan Title: EXTERNAL MAGNETIC FIELD EFFECTS IN MAGNETICALLY INSULATED LINE OSCILLATORS
TA2-S3-025 - Khawar Nadeem Title: A RECTANGULAR CORRUGATED KU-BAND BWO WITH DUAL RESONATOR
TA2-S3-026 - Edl Schamiloglu Title: HIGH POWER AMPLIFIER BASED ON INTERACTION BETWEEN MULTIPLE ELECTRON STREAM
TA2-S3-028 - Meiqin liu Title: DISPERSION RELATIONSHIP OF A SPLIT RING RESONATOR METAMATERIAL ARRANGED IN A CIRCULAR WAVEGUIDE
TA2-S3-031 - PATRIZIA LIVRERI Title: A THREE DOUBLE-GAP HUGHES-TYPE COUPLED-CAVITY SIMPLIFIED DESIGN PROCEDURE FOR A KA-BAND EIK
TA3-S1-060 - Jenny Smith Title: DEVELOPMENT AND CHARACTERIZATION OF HOLLOW CATHODE PLASMA SOURCE FOR LIF-DIP EXPERIMENTAL SYSTEM
TA3-S1-061 - Janilee Benitez Title: MICROWAVE TRANSMISSION THROUGH THE VENUS ECR ION SOURCE
TA3-S1-065 - Ben Crampsey Title: DYNAMICS OF HIGHLY ENERGETIC ELECTRONS IN NOVEL ACCELERATING DIODES
TA3-S1-067 - Victor Burdovitsin Title: FORMATION OF PROTECTIVE AND WEARRESISTANT COATINGS ON TITANIUM ALLOYS BY THE COMBINATION OF FORE-VACUUM ELECTRON-BEAM AND ION-PLASMA DEPOSITION
TA3-S1-058 - Utkarsh Shashank Title: SPIN-TRANSPORT STUDY IN STRONTIUM TITANATE BASED TWO-DIMENSIONAL ELECTRON GAS CREATED BY ARGON IONS
TA3-S2-003 - Zhanghu Hu Title: MODULATION OF ION BEAMS IN TWO-COMPONENT PLASMAS: THREE-DIMENSIONAL PARTICLE-IN-CELL SIMULATION

TA3-S2-004 - Claude Fourment Title: PROPAGATION OF AN INTENSE RELATIVISTIC PULSED ELECTRON BEAM THROUGH LOW PRESSURE HELIUM
TA3-S2-005 - Ricky Ang Title: FRACTIONAL MODEL OF FIELD EMISSION TO SPACE CHARGE LIMITED CURRENT FOR ROUGH METALLIC CATHODE
TA4-S2-018 - Takumi Nishiura Title: CONTROL OF ION BEAM GENERATED BY INTENSE LASER
TA4-S2-022 - Joseph Strehlow Title: THE EFFECTS OF PULSE LENGTH AND COLLISIONAL IONIZATION ON THE LASER-DRIVEN ACCELERATION OF TITANIUM
TA4-S4-014 - Nicholas Ouart Title: X-RAY RADIATION FROM KRYPTON DOPED SYMMETRIC CAPSULE IMPLOSION EXPERIMENTS ON NIF
TA4-S4-018 - Daniel Maler Title: FREE TARGET ACCELERATION BY UNDERWATER ELECTRICAL EXPLOSION OF A WIRE ARRAY
TA4-S5-002 - Sree Harsha Srikantaiah Title: EFFECT OF ABERRATIONS IN FOCUSING ELEMENTS ON FEMTOSECOND FILAMENTS
TA4-S5-005 - Sai Shiva Sakaraboina Title: A THREE DIMENSIONAL THREE TEMPERATURE RADIATION HYDRODYNAMIC SIMULATIONS OF LASER PRODUCED AIR PLASMA DYNAMICS IN AMBIENT ATMOSPHERIC AIR
TA4-S5-004 - Nagaraju Guthikonda Title: MATERIAL DEPENDENCE OF LATERAL CONFINEMENT OF LASER INDUCED AIR PLASMA
TA4-S2-021 - Nisha Singh Rathore Title: STUDY OF MODULATION INSTABILITY AND ENVELOPE EXCITATION IN PARTIALLY STRIPPED MAGNETIZED HIGH DENSITY QUANTUM PLASMA
TA4-S5-018 - Swarvanu Ghosh Title: CHARACTERIZING WEIBEL-FILAMENT SCALE SIZE IN COUNTER-STREAMING PLASMA FLOWS UNDER VARYING PLASMA CONDITIONS
TA5-S1-009 - Udip Adhikari Title: FABRICATION OF EXCELLENT AND DURABLE SUPERHYDROPHOBIC SURFACES BY COLD PLASMA TREATMENT
TA5-S1-014 - Ying Wang (Bo Ouyang) Title: PLASMA BASED STRATEGIES FOR SYNTHESIS AND PROCESSING OF ELECTRODE MATERIALS IN ENERGY APPLICATION
TA5-S1-046 - Pengyu Wang Title: GROWTH AND PRECIPITATION OF WATER DROPLETS INDUCED BY CORONA DISCHARGE IN HUMID AIR
TA5-S1-060 - Yu-Lin Kuo Title: HARDNESS ENHANCEMENT USING PLASMA NITRIDING SKD11 DIE STEEL IN AN ATMOSPHERIC PRESSURE PLASMA JET
TA5-S1-061 - Wannakuwaththawaduge Thomas Leon Suganda Fernando Title: HYOPHILICITY VARIANCE ON THE ATMOSPHERIC PRESSURE PLASMA IRRADIATED POLYDIMETHYLSILOXANE SURFACES
TA5-S1-063 - Zulkifli Azman Title: ALUMINIUM NITRIDE THIN FILM DEPOSITION BY DC AND HIGH-POWER IMPULSE MAGNETRON SPUTTERING
TA5-S1-065 - Josh Morsell Title: DESIGN AND CHARACTERIZATION OF AN OPEN CHANNEL MICROFLUIDICS TEST BED FOR ATMOSPHERIC PLASMA DISCHARGES
TA5-S1-066 - Ndiffo Yemeli Gervais Blondel Title: ACTIVATION OF WATER (PAW) BY NON-THERMAL PLASMA FOR MAIZE GROWTH: AGEING AND CONCENTRATION EFFECT OF PAW
TA6-S3-002 - Takeshi Katahira Title: MEASUREMENT OF PLASMA PARAMETERS BY FLOATING PROBE METHOD USING TONE BURST SIGNAL

TA6-S3-004 - Satyananda Kar Title: DEVELOPMENT OF A NOVEL ELECTRICAL CHARACTERIZATION TECHNIQUE TO DIAGNOSE AN RF ATMOSPHERIC PRESSURE PLASMA JET
TA6-S3-008 - Zhiling Li Title: INVESTIGATION OF ELECTRICAL PHENOMENA INDUCED IN DENSE HELIUM
TA6-S3-013 - Chi Chen Title: DIAGNOSIS FOR 2.4GHZ COAXIAL MICROWAVE DRIVEN PLASMA
TA5-S2-010 - Manabu Tanaka Title: FLUCTUATION PHENOMENA IN MULTIPHASE AC ARC UNDER NITROGEN ATMOSPHERE
TA5-S2-014 - Yusuke Nemoto Title: CALCULATION OF ELECTRON AND HEAVY PARTICLE TEMPERATURE WITH TRANSIENT RECOVERY VOLTAGE USING BY 3-D ELECTROMAGNETIC THERMAL FLUID SIMULATION
TA5-S2-016 - Honoka Morishita Title: DEVELOPMENT OF 3-D ELECTROMAGNETIC THERMAL FLUID SIMULATION FOR CALCULATION OF METAL VAPOR GENERATED BY ARC DISCHARGE FROM ELECTRODES
TA5-S2-017 - Masahiro Takagi Title: DEVELOPMENT OF 3-D ELECTROMAGNETIC THERMAL FLUID SIMULATION FOR ANALYZING MOVEMENT AND DISAPPEARANCE OF MULTIPLE CATHODE SPOTS IN VACUUM ARC
TA7-S2-021 - Victor Bochkov Title: STUDY OF THE NEW GENERATION OF THYRATRONS AND PSEUDOSPARK SWITCHES. EXPERIENCE OF APPLICATION IN EQUIPMENT FOR MICROSECOND AND NANOSECOND PULSE WIDTH DURATION
TA7-S2-027 - David Martinez Title: DEGRADATION OF THE OUTPUT OF PULSE POWER SYSTEMS ASSOCIATED WITH NON-IDEAL BEHAVIOR OF PROTECTED THYRISTORS
TA7-S2-028 - Crispin Masahudu Ewuntomah Title: ANALYSIS OF AN AUTOMOTIVE HVDC RELAY BEHAVIOUR DURING SHORT CIRCUIT SITUATIONS
TA7-S2-029 - KANCHI SUNIL Title: DESIGN AND STUDY OF 40KJ CAPACITOR BANK FOR DENSE PLASMA APPLICATIONS
TA7-S3-001 - Bucur Novac Title: A 1 MV TESLA GENERATOR
TA7-S3-002 - Bucur Novac Title: A SUPERSONIC UNDERWATER PULSED ACOUSTIC SOURCE
TA7-S3-012 - Rick Spielman Title: INDIVIDUAL BRICK PERFORMANCE FOR THE CINCO PULSED-POWER IVER USED FOR EQUATION-OF-STATE EXPERIMENTS
TA7-S3-015 - SUBHANARAYAN SAHOO Title: EFFECT OF SURFACE DEGRADATION OF ACTUATOR ON ELECTROMAGNETIC PULSE WELDING
TA8-S4-025 - Yijun Hu Title: A BROADBAND 220-GHZ THICK-DISK BEO VACUUM WINDOW
TA8-S4-027 - Wenxin Liu Title: THE DISPERSION CHARACTERISTICS OF SLOW WAVE STRUCTURE EMBEDDED WITH ELECTRON BEAM IN TERAHERTZ RECTANGULAR GRATING
TA8-S4-028 - Ruichao Yang Title: SIMULATION OF 1THZ SINE WAVEGUIDE TRAVELING WAVE TUBES
TA8-S4-029 - Feng Lan Title: SUB-TERAHERTZ BROADBAND INDEPENDENTLY ELECTRICALLY TUNABLE PHASE-SHIFT HORN-SHAPED METAMATERIALS EMBEDDED WITH GAAS DIODE
TA8-S4-037 - Haoyang Wang Title: A DIPOLE APPROXIMATION MODEL APPLICABLE TO BOTH ONE-AND TWO- COLOR CASES IN TERAHERTZ GENERATION PROCESS IN WATER
TA8-S4-043 - Shengkun Jiang Title: METASURFACE SLOW WAVE STRUCTURE FOR 220 GHZ SHEET BEAM TRAVELING WAVE TUBE

TA8-S5-003 - Guo Xiaoqing

Title: HEMT DIODE TERAHERTZ WAVE MODULATOR LOADED IN RECTANGULAR WAVEGUIDE

TA8-S5-008 - Liu Chunyu

Title: DUAL STRUCTURED TERAHERTZ BEAM GENERATORS BASED ON ALL-DIELECTRIC METASURFACES

**End of Day 2**



<b>Day 3 - 8 December 2020</b>
<b>PARALLEL SESSSIONS</b>
<b>D3N1-TA1.2</b> <b>SC: Joe Theis</b>
TA1-S2-028 - Ho Jun Kim EFFECTS OF THE ELECTRODE TEMPERATURE ON SPATIAL DISTRIBUTIONS OF PLASMA PARAMETERS IN INTERMEDIATE PRESSURE CAPACITIVELY COUPLED PLASMAS (Invited Talk - 30 min)
TA1-S2-053 Ade D Pratama SIMULATION OF ATMOSPHERIC PRESSURE DC PLASMA TORCH USING ARGON GAS (15 min)
TA1-S2-055 - Joseph Theis PREDICTION OF PASCHEN'S LAW USING SPEED-LIMITED PARTICLE-IN-CELL SIMULATION (15 min)
TA1-S2-056 - Gregory Werner MODELING PLASMA PROBES WITH SPEED-LIMITED PARTICLE-IN-CELL SIMULATION (15 min)
TA1-S2-058 - Thomas Jenkins KINETIC DISPERSION RELATIONS AND THE SPEED-LIMITED PARTICLE-IN-CELL ALGORITHM (15 min)
TA1-S2-046 - Kostyantyn Korytchenko Title - NUMERICAL INVESTIGATION OF AN INFLUENCE OF VIBRATIONAL EXCITATION PROCESS ON DIRECT DETONATION INITIATION IN A HYDROGEN-OXYGEN MIXTURE BY SPARK DISCHARGE (15 min)
<b>D3N2-TA2.4</b> <b>SC: Sheel Aditya</b>
TA2-S4-011 - Reginald Jaynes MICROFABRICATION AND MICROMACHINING FOR MILLIMETER-WAVE TRAVELING WAVE TUBES (Invited Talk - 30 min)
TA2-S4-012 - Jun Chen Preparation of ZnO nanowire field emitter arrays and their device applications (Invited Talk - 30 min)
TA2-S4-007 - Hexin Wang THE STUDY OF VERY LOW VOLTAGE PLANAR SLOW WAVE STRUCTURE FOR COMPACT TWT (15 min)
TA2-S4-013 - Xianlong Wei ON-CHIP THERMIONIC ELECTRON SOURCES BASED ON GRAPHENE AND CARBON NANOTUBES (15 min)
TA2-S3-042 - Bilawal Ali* Title: DESIGN AND SIMULATION STUDY OF S-BAND MILO-BASED RADIATION SYSTEM
<b>D3N3-TA3.3</b> <b>SC: Wu Lin</b>
TA3-S3-003 - Fang LIU (Invited Talk - 30 min) CHERENKOV RADIATION BASED ON NANOSTRUCTURES
TA3-S3-010 - Gennady Shvets (15 min) TRANSITION RADIATION IN PHOTONIC TOPOLOGICAL CRYSTALS: QUASI-RESONANT EXCITATION OF ROBUST EDGE STATES BY A MOVING CHARGE
TA3-S3-013 - Surbhi Gupta Title: FERROELECTRIC-PHOTOVOLTAIC AND OPTOELECTRONIC-SENSING RESPONSE TO SUBSTITUTION ENGINEERING OF SPIN CASTED BIFEO3 THIN FILMS

<p>TA3-S3-015 - Paul Lee  Title: MODIFICATIONS OF TUNGSTEN SUBSTRATES FOR IMPROVED SURFACE HARDNESS USING DENSE PLASMA</p>
<p><b>D3N4-TA4.6</b>  <b>SC: Mary Ann Sweeney</b></p>
<p>TA4-S6-032 - Nicholas Aybar  SIMULTANEOUS MEASUREMENTS OF GAS-PUFF Z-PINCH PARAMETERS USING VISIBLE SPECTROSCOPY  (Invited Talk - 30 min)</p>
<p>TA4-S6-016 - Ziwei Chen  IMPLOSION DYNAMICS AND RADIATION OF PRECONDITIONED HYBRID X-PINCH  (15min)</p>
<p>TA4-S6-019 - Raul Melean  PULSED-POWER MAGNETIZED JETS FOR THE STUDY OF STAR FORMATION  (15min)</p>
<p>TA4-S6-022 - Paul Campbell  Controlling Magneto Rayleigh-Taylor Instabilities with a Dynamic Screw Pinch  (15min)</p>
<p>TA4-S6-024 - Jeremy Chittenden  3D MHD SIMULATIONS OF WIRE ARRAY RADIATION ABLATION EXPERIMENTS AND MAGNETISED LINER FUSION  (15min)</p>
<p>TA4-S6-025 - Alla Safronova  X-RAY RADIATION FROM COMPACT TUNGSTEN WIRE ARRAYS AT 1 MA CURRENT  (15min)</p>
<p>TA4-S6-028 - Georgy Oleynik  PLASMA PRODUCTION ON THE CURRENT CARRYING ELECTRODES AT THE ANGARA-5-1  (15min)</p>
<p><b>D3N5-TA5.2</b>  <b>SC: Toru Iwao</b></p>
<p>TA5-S2-029 - Hai-Xing Wang  CHEMICAL NON-EQUILIBRIUM SIMULATION OF AN ARGON TRANSFERRED ARC WITH CROSS-FLOW  (Invited Talk - 30 min)</p>
<p>TA5-S2-011 - Manabu Tanaka  (15min)  PLANAR THERMAL PLASMA JET IN DIODE-RECTIFIED AC ARC SYSTEM UNDER ATMOSPHERIC PRESSURE</p>
<p>TA5-S2-015 - Yuki Suzuki  (15min)  ANALYSIS OF TEMPERATURE DISTRIBUTION AND ABLATION GAS CONCENTRATION DISTRIBUTION UNDER CONSIDERATION OF NOZZLE ABLATION CAUSED BY SPIRAL ARC APPLIED AXIAL MAGNETIC FIELD</p>
<p>TA5-S2-023 - Waldo Bongers  (15min)  PLASMA AS FEASIBLE OPTION FOR RENEWABLE ENERGY DRIVEN HYBRID (NON)EQUILIBRIUM CHEMISTRY</p>
<p>TA5-S2-026 - Zachary Jeckell  (15min)  ATMOSPHERIC-PRESSURE MICROWAVE-PLASMA-PRODUCED ANTI-CORROSION AND ADHESION-PROMOTION THIN FILMS</p>
<p>TA5-S2-028 - Sayan Biswas  (15min)  EXPERIMENTAL AND NUMERICAL INVESTIGATION OF NANO-SECOND THERMAL PLASMA IGNITION</p>
<p>TA5-S2-035 - Ryudai Furukawa  (15min)  IMAGING OF FEEDSTOCK PARTICLE DYNAMICS IN THERMAL PLASMA FOR NANOPARTICLE SYNTHESIS BY LASER-STROBE MEASUREMENT</p>

**D3N6-TA5.4**  
**SC: Danhua Mei**

TA5-S4-011 - Tao Shao  
EFFICIENT CONVERSION OF GREENHOUSE GAS INTO VALUE-ADDED CHEMICALS WITH NON-THERMAL NANOSECOND PULSED PLASMA  
(Invited Talk - 30 min)

TA5-S4-010 - Ivan Ganachev  
WALL SURFACE CURRENTS IN INDUCTIVELY COUPLED PLASMAS FOR MATERIAL PROCESSING  
(15min)

TA5-S4-013 - Rusen Zhou  
FUELING THE FUTURE: PLASMA-ENABLED DIRECT LIQUID ETHANOL CONVERSION FOR HYDROGEN GAS AND C-MATERIALS PRODUCTION  
(15min)

TA5-S4-018 - Dingchen Li  
THE INTERCEPTION OF FOG BY IONIC WIND INDUCED BY CORONA DISCHARGE IN A WIRES-MESH ELECTRODE  
(15min)

TA5-S4-043 - Guido Link  
NON-EQUILIBRIUM ATMOSPHERIC AND MICROWAVE SUSTAINED PLASMA FOR CO<sub>2</sub> CONVERSION  
(15min)

TA5-S4-052 - Haneul Lee  
CHARACTERIZATION OF COUPLING COEFFICIENT FOR TRANSFORMER MODEL APPLICATION IN NON-INVASIVE PLASMA MONITORING  
(15min)

**D3N7-TA7.4**  
**SC: James Schrock**

TA7-S4-026 - John Mankowski  
COMPACT PULSED POWER AT TEXAS TECH UNIVERSITY  
(Invited Talk - 30 min)

TA7-S4-001 - Zhe Fan  
MICROSECOND PULSED SPARK DISCHARGE PLASMA TREATMENT ON HEAVY OIL MODEL COMPOUNDS FOR HYDROGEN PRODUCTION  
(15min)

TA7-S4-004 - Denis Zolotukhin  
TWO-STAGE MICRO-CATHODE MPD THRUSTER AND ITS IMPROVEMENT BY THE THRESHOLD BEHAVIOR OF THE MAGNETIZED ARC  
(15min)

TA7-S4-020 - Myung-Geun Song  
DESIGN, FABRICATION AND EXPERIMENTAL RESULTS OF A FOUR-STAGE INDUCTION COILGUN USING PULSED POWER FOR LAUNCHING HEAVY PROJECTILE  
(15min)

TA7-S4-022 - Huantong Shi  
EFFECTS OF CIRCUIT INDUCTANCE ON ELECTRICAL AND SHOCK WAVE CHARACTERISTICS DURING UNDERWATER COPPER WIRE EXPLOSION  
(15min)

TA7-S4-027 - Ranashree Ram  
EFFECT OF MUTUAL FLUX LINKAGE BETWEEN STAGES ON THE PROJECTILE MOTION IN A MULTISTAGE INDUCTION COILGUN  
(15min)

TA7-S4-028 - Deepak Kaushik  
NUMERICAL MODELLING AND ANALYSIS OF THE EFFECTS OF PROCESS PARAMETERS ON PULSED ELECTROMAGNETIC CRIMPING  
(15min)

**D3N8-TA8.4**  
**SC: Wenxin Liu**

TA8-S4-041 - Wenxin Liu  
DEVELOPMENT THE G- AND Y-BAND FOLDED WAVEGUIDE TRAVELING WAVE TUBES  
(Invited Talk - 30 min)

TA8-S4-011 - TIANNING ZHANG  
Title: NONLINEAR THZ OPTICAL RESPONSE OF 3D TOPOLOGICAL DIRAC/WEYL SEMIMETALS  
(15min)

TA8-S4-014 - Jeremy Lim  
Title: ANOMALOUS SUPPRESSION OF HIGHER-ORDER NONLINEARITIES IN 3D DIRAC SEMIMETALS  
(15min)

TA8-S4-036 - Weidong Wu  
Title: THERMAL LOCALIZATION ENHANCED TERAHERTZ PHOTOTHERMOELECTRIC RESPONSE IN QUASI-ONE-DIMENSIONAL MATERIAL NBS3  
(15min)

TA8-S4-039 - Jinjing Luo  
IMPROVEMENT OF 0.34 THZ SHEET BEAM SINE WAVEGUIDE TRAVELING WAVE TUBE  
(15min)

**Poster Session -3 on Day 3**

TA1-S1-074 - Cyrus Nejat  
Title: NEJAT LAWS FOR PLASMA BEHAVIOR BETWEEN TWO PLATES WITH PASCHEN CURVE ANALYSIS

TA1-S1-043 - David Go  
Title: SCHLIEREN IMAGING INVESTIGATION FOR ATMOSPHERIC PRESSURE HELIUM PLASMA JET

TA1-S1-015 - Zhengshi Chang  
Title: THE EFFECTS OF SEEC AND PERMITTIVITY OF DIELECTRIC ON PROPERTIES OF AR/NH3 DBD BY EMPLOYING 1D NUMERICAL MODEL

TA1-S1-014 - Anbang Sun  
Title: 2D FLUID SIMULATIONS OF THE INTERACTION BETWEEN STREAMERS AND DIELECTRICS: CHARACTERISTICS OF SURFACE CHARGE

TA1-S2-013 - Chang Ho Kim  
Title: THE EFFECT OF SECONDARY ELECTRON EMISSION ON ELECTRON HEATING AND ION TRANSPORT IN CAPACITIVELY COUPLED RF PLASMAS

TA1-S2-015 - John Luginsland  
Title: OHM'S LAW IN THE SLOW LANE: GALILEAN INVARIANT ELECTROMAGNETIC CLOSURES FOR ELECTRON-ION PLASMAS

TA1-S2-016 - Amanda Lietz  
Title: ESTIMATING SECONDARY ELECTRON YIELDS USING PLASMA DISCHARGE MODELING

TA2-S3-032 - PATRIZIA LIVRERI  
Title: DESIGN OF A TWT CONIC HELIX SLOW-WAVE STRUCTURE FOR HIGH EFFICIENCY AND BWO IMMUNITY

TA2-S3-035 - Igor Chernyavskiy  
Title: ADAPTING THE LARGE-SIGNAL CODE TESLA TO THE MODELING OF BWOS

TA2-S3-044 - Matthew Abide  
Title: S-BAND MAGNETICALLY INSULATED LINE OSCILLATOR (MILO) WITH ADJUSTABLE CATHODE/BEAM DUMP OVERLAP

TA2-S3-046 - Vishant Gahlaut  
Title: FIVE-STAGE DEPRESSED COLLECTOR FOR HIGH EFFICIENCY SPACE TWTS

TA2-S4-006 - Jun Dai  
Title: MODELING OF A HIGH-POWER TERAHERTZ VACUUM PHOTOMIXER SOURCE

TA2-S4-008 - Duo Xu  
Title: AN ALGORITHM FOR CALCULATING THE OPERATING VOLTAGE OF COMPLEX SLOW WAVE STRUCTURES

TA2-S4-009 - Andrey Starodubov Title: AN ORIGINAL APPROACH FOR MICROFABRICATION OF METAMATERIALS PATTERNS FOR MILLIMETER-BAND VACUUM MICROELECTRONIC DEVICES
TA3-S2-010 - Brandon Medina Title: HYBRID SIMULATION OF HIGH INTENSITY ELECTRON BEAM PROPAGATION THROUGH A LOW PRESSURE GAS CELL
TA3-S2-013 - Jacques Gardelle Title: EXPERIMENTAL AND NUMERICAL STUDIES OF ELECTRON BEAM PROPAGATION IN ARGON
TA3-S2-015 - Saikang SHEN Title: STUDY ON THE STABILITY OF THE ELECTRON BEAM GENERATED BY TRIGGERED PSEUDOSPARK DISCHARGE
TA3-S2-020 - Shengkun Jiang Title: RESEARCH OF PCM AND UNIFORM MAGNETIC FIELD FOCUSING IN SHEET ELECTRON BEAM
TA3-S2-022 - Haruyasu Ishida Title: DEVELOPMENT OF BIPOLAR PULSE ACCELERATOR FOR HIGH-PURITY INTENSE PULSED ION BEAM TO MATERIAL PROCESSING
TA3-S2-023 - LI Qiang Title: PARTICLE SIMULATION FOR THE C-BAND SINGLE-INJECTION KL--YSTRON AMPLIFIER
TA3-S3-002 - Tianyu Zhang Title: EXTREMELY CONFINED ACOUSTIC GRAPHENE PLASMONS EXCITED BY FREE-ELECTRON-BEAMS
TA3-S3-018 - Stanislav Makarkin Title: AN ANALYSIS OF SPATIALLY LOCALIZED CLUSTERS OF SPACE CHARGE IN NON-LAMINAR ELECTRON BEAMS OF LOW-VOLTAGE VIRCATORS
TA4-S5-003 - Sree Harsha Srikantaiah Title: EVALUATION OF SONIC EMISSIONS FROM FEMTOSECOND FILAMENTS
TA4-S5-008 - ARATI DASGUPTA Title: SPECTROSCOPIC DIAGNOSTICS USING LINE RADIATION IN LASER IVEN NON-EQUILIBRIUM PLASMAS
TA4-S6-021 - Akash Shah Title: DEVELOPMENT OF A GAS-PUFF Z-PINCH EXPERIMENT FOR THE 1-MA, 100-NS MAIZE LTD
TA4-S6-023 - Simon Bland Title: AN ULTRA-PORTABLE X-PINCH FOR PROBING WARM DENSE MATTER
TA4-S6-026 - Nicholas Aybar Title: MAGNETIC FIELD CHARACTERIZATION OF OXYGEN GAS-PUFF Z-PINCH USING SPECTROSCOPIC TECHNIQUES
TA4-S6-027 - Stuart Jackson Title: EFFECT OF INITIAL CONDITIONS ON CHARGED PARTICLE ACCELERATION IN A DENSE PLASMA FOCUS
TA4-S6-033 - Łukasz Marciniak Title: FUSION NEUTRON EMISSION AND PLASMA DYNAMICS IN THE PF-24 DEVICE OPERATED WITH D2 AND D2-NE MIXTURES – EXPERIMENTS AND SIMULATIONS
TA4-S6-041 - Yen-Cheng Lin Title: THE STUDY OF THE ROTATIONAL PLASMA JETS PRODUCED BY TWISTED-CONICAL-WIRE ARRAY
TA5-S2-018 - Masashi Shimazaki Title: MOVEMENT SPEED VARIATION OF CATHODE SPOT AFFECTED BY MAGNETIC FLUX DENSITY MAGNITUDE OF ALTERNATING MAGNETIC FIELD
TA5-S2-021 - Shinichiro Kashiwagi Title: CALCULATION OF ARC TEMPERATURE DISTRIBUTION WITH CHANGING NOZZLE SHAPE
TA5-S2-022 - Yuki Sugiyama Title: ARC DEFLECTION LENGTH AFFECTED BY DIAGNAL MAGNETIC FIELD IN 3D ELECTROMAGNETIC THERMAL FLUID SIMULATION
TA5-S2-024 - Jun-Ho Seo Title: PERFORMANCE TEST OF A REVERSE POLARITY PLASMA TORCH FOR MELTING APPLICATIONS OF NON-COMBUSTIBLE WASTES

TA5-S2-031 - Sang-Min Chung Title: SURFACE TREATMENT OF CARBONACEOUS POWDER BY INDUCTION PLASMAS
TA5-S3-001 - Potrivitu George-Cristian Title: SCALING LAWS FOR VERY LOW-CURRENT LAB6 THERMIONIC CATHODES FOR ELECTRIC PROPULSION SYSTEMS FOR SMALL SATELLITES
TA5-S3-007 - Yufei Sun Title: PRELIMINARY EXPERIMENTS ON ROTAMAK-LIKE PLASMA ENGINE
TA5-S3-009 - Lubos Brieda Title: STUDY OF VACUUM ARC FORMATION USING A ONE-DIMENSIONAL CPU/GPU PARTICLE CODE
TA5-S5-002 - Chaoyang Zhang Title: LOW-TEMPERATURE STERILIZATION BY ATMOSPHERIC PRESSURE PLASMA JET
TA5-S5-005 - jinwoo kim Title: VIABILITY OF SHELF LIFE EXTENSION OF BLUEBERRIES USING A PLASMA POUCH
TA5-S5-006 - MASAFUMI ITO Title: PROMOTION OF AMYLASE PRODUCTIONS FROM ASPERGILLUS ORYZAE SPORES EXPOSED TO OXYGEN RADICALS
TA5-S5-011 - Jiali Chen Title: SILICON CARBIDE NANOSHEETS WERE PREPARED BY HELICON WAVE PLASMA CHEMICAL VAPOR DEPOSITION
TA5-S5-017 - Li Lin Title: PLASMA-TARGET AT STEADY STATE: A GENERAL METHOD OF REACTIVE SPECIES DOSAGE ESTIMATION FOR PLASMA JET MEDICINE
TA5-S5-023 - Ferhat Bozduman Title: TREATMENT OF SKIN CANCER BY USING ATMOSPHERIC PRESSURE COLD PLASMA METHOD
TA5-S5-029 - Subhanarayan Sahoo Title: TERMINATION OF MAGGOTS FROM GREEN PLANT BY DEVELOPED MICROWAVE SOURCE
TA7-S4-038 - I. V. Jawahar Reddy Title: DESIGN AND DEVELOPMENT OF 300/1 $\Omega$ VOLTAGE DIVIDER
TA7-S3-017 - Brendan Sporer Title: TESTING OF THE PROTOTYPE BLUE LINEAR TRANSFORMER DRIVER (LTD) CAVITY AT UNIVERSITY OF MICHIGAN
TA7-S3-028 - Saikang SHEN Title: APPLICATION OF REPETITIVE NANOSECOND PULSE GENERATOR BASED ON AVALANCHE TRANSISTORS IN PLASMA JET
TA7-S4-007 - canhui shi Title: CONTINUOUS PULSED ELECTRIC FIELD TREATMENT OF MICROORGANISMS USING DIFFERENT ELECTRODE TOPOLOGY
TA7-S4-010 - Canhui Shi Title: INDIRECT CONTACT PULSED ELECTRIC FIELD TREATMENT USING CERAMIC ELECTRODES WITH HIGH DIELECTRIC CONSTANT
TA7-S4-011 - Shu Yang Title: AN IMPROVED DESIGN METHOD OF SNUBBER CIRCUIT FOR HIGH-VOLTAGE DIODE RECTIFIER IN ACCELERATION GRID POWER SUPPLY
TA7-S4-015 - LI Pengfei Title: EFFECTS OF PULSED ELECTRIC FIELD TREATMENT ON LIPASE ACTIVITY
TA7-S4-029 - Vitaliy Stelmashuk Title: COMPARISON AND VALIDATION OF TWO MATHEMETICAL MODEL OF UNDERWATER SPARK SIMULATION USING CYLINICAL AND ELLEPTICAL COORDINATES
TA5-S2-032 - Kostyantyn Korytchenko Title: EXPERIMENTAL INVESTIGATION OF PULSED ARC DISCHARGE GENERATED BY HIGH-ENERGY SPARK IGNITION SYSTEM (added on 24 Nov 2020)

TA8-S5-017 - Wei Feng Title: EFFICIENT PHASE MODULATION OF THZ WAVE WITH A PHOTO-INDUCED DYNAMIC VANADIUM DIOXIDE EIT META-SURFACE
TA8-S5-022 - Jun Zhou Title: DEEP LEARNING DESIGN OF A TERAHERTZ METAGRATING
TA8-S5-023 - Xiaojian Fu Title: TERAHERTZ CODING METAMATERIALS FOR FLEXIBLE BEAM MANIPULATIONS
TA8-S5-030 - Amy MacLachlan Title: OVERMODED, HIGH-POWER 0.2 THZ RADIATION SOURCE BASED ON A CYLINDRICAL 2D PERIODIC SURFACE LATTICE CAVITY
TA8-S6-016 - Yayun Cheng Title: PASSIVE TERAHERTZ MULTI-POLARIZATION IMAGING EXPERIMENTS FOR PERSONNEL SCREENING APPLICATION
TA8-S6-026 - Bingbing Wang Title: TERAHERTZ IMAGING BASED ON SI:P BLOCKED IMPURITY BAND DETECTOR
TA8-S7-005 - Yinian Feng Title: A COMPACT G-BAND DIPLEXER BASED ON QUASI-ELLIPTICAL FILTER
TA8-S7-007 - Diwei Liu Title: MODE COMPETITION IN THZ SOURCE WITH PARALLEL MULTI-BEAM AND ARRAY STRUCTURE
<b>End of Day 3</b>

<b>Day 4 - 9 December 2020</b>
<b>PARALLEL SESSIONS</b>
<b>D4M1-TA1.3</b> <b>SC: Hae June Lee</b>
TA1-S3-002 - Xiaogang Wang INTRODUCTION TO SPACE ENVIRONMENT EXPERIMENT RESEARCH FACILITY (SPERF) (Invited Talk - 30 min)
TA1-S3-004 - Min Sup Hur STUDY OF COSMIC RADIO BURSTS IN LAB-SCALE PLASMAS (Invited Talk - 30 min)
TA1-S3-020 - Chengran Du INTERFACIAL PHENOMENA IN A PHASE-SEPARATED BINARY COMPLEX PLASMA: EXPERIMENTS AND SIMULATIONS (Invited Talk - 30 min)
TA1-S3-025 - Paul Bernhardt STRONG AMPLIFICATION OF ELF/VLF SIGNALS IN SPACE USING NEUTRAL GAS INJECTION FROM A SATELLITE ROCKET ENGINE (15 min)
TA1-S3-023 - Bengt Eliasson OBSERVATION AND NUMERICAL MODELLING OF IONOSPHERIC BEAT-WAVE BRILLOUIN SCATTERING AT EISCAT (15 min)
TA1-S3-005 - Nakul Nuwal KINETIC MODELING OF SNAPOVER ON SPACECRAFT SOLAR-PANEL SURFACES (15 min)
<b>D4M2-TA2.5</b> <b>SC: He-Ping Li</b>
TA2-S5-007 - Xiaolin Jin APPLICATION AND IMPLEMENT OF 3D FASTPIC SIMULATOR (Invited Talk - 30min)
TA2-S5-014 - Yongdong Li UNIPIC: A CONFORMAL PARTICLE-IN-CELL CODE FOR HIGH POWER MICROWAVE AND PULSE DISCHARGE (Invited Talk 30min)
TA2-S5-004 - Xiaofang Zhu COMPUTER AIDED SIMULATION OF ASSEMBLY PROCESS AND KEY ASSEMBLY PARAMETERS OF TWT (15 min)
TA2-S5-012 - Chun Yun Kee GPU ACCELERATED EM MODELING TOOL FOR ELECTRICALLY LARGE OBJECTS (15 min)
TA2-S5-018 - Alexander Vlasov ADJOINT APPROACH TO OPTIMIZATION OF BEAM WAVE INTERACTION (15 min)
TA2-S5-019 - Simon Cooke RECENT ENHANCEMENTS IN ELECTROMAGNETIC PARTICLE-IN-CELL MODELING WITH NEPTUNE (15 min)
TA2-S5-020 - Luke Silvestre DEVELOPMENT OF A VLASOV EQUATION BASED NUMERICAL MODEL OF MULTIPACTOR DISCHARGE (15 min)
<b>D4M4-TA4.6</b> <b>SC: Ryan McBride</b>



<p>TA4-S6-037 - Simon Bland  PULSED POWER DRIVEN UNDERWATER WIRE ARRAY EXPLOSIONS AND THEIR USE TO PROPEL HIGH SPEED FLYER PLATES  (Invited Talk - 30min)</p>
<p>TA4-S6-042 - Alexander Rososhek  ENHANCED CONVERGENCE OF A CYLINDRICAL SHOCKWAVE  (15min)</p>
<p>TA4-S6-043 - Mark Hess  ELECTRON DYNAMICS WITHIN A MAGNETICALLY INSULATED TRANSMISSION LINE CONTAINING A LOAD  (15min)</p>
<p>TA4-S6-045 - Daoyuan Zhang  STUDY OF INSIDE PLASMA PRECURSOR AND OUTSIDE PLASMA INSTABILITY OF EXPLODING LINER  (15min)</p>
<p>TA4-S6-046 - Eric Lerner  OPTIMIZATION OF A MEGA-AMPERE DPF WITH MONOLITHIC BERYLLIUM ELECTRODES FOR HIGH NEUTRON YIELD  (15min)</p>
<p>TA4-S6-049 - Ioannis Ftilis  INFLUENCE OF Z-PINCH WIRE GEOMETRICAL CHARACTERISTICS ON THE GENERATION OF THE ELECTROTHERMOMECHANICAL AND PLASMA INSTABILITIES  (15min)</p>
<p>TA4-S6-050 - Tal Queller  RADIAL CURRENT DISTRIBUTION OF A GAS-PUFF SELF IMPLoding PLASMA CLOSE TO STAGNATION  (15min)</p>
<p><b>D4M5-TA5.2</b>  <b>SC: Hai-Xing Wang</b></p>
<p>TA5-S2-030 - Igor Kaganovich  VALIDATED MODELING OF ATMOSPHERIC -PRESSURE ANODIC ARC AND SYNTHESIS OF CARBON NANOMATERIALS  (Invited Talk - 30 min)</p>
<p>TA5-S2-036 - Keita Akashi  (15min)  EFFECT OF INTERMITTENT INJECTION TIMING OF QUENCHING GAS ON COMPOSITION AND PARTICLE SIZE OF Si/C NANOPARTICLES SYNTHESIZED BY MODULATED INDUCTION THERMAL PLASMA</p>
<p>TA5-S2-037 - Kazufumi Hata  NUMERICAL SIMULATION OF AR/CH4/H2 MODULATED INDUCTION THERMAL PLASMA FOR DIAMOND FILM DEPOSITION  (15min)</p>
<p>TA5-S2-038 - Mako Yoshida  ICP MS/AES SIMULTANEOUS ANALYSIS SYSTEM FOR TRACE ELEMENTS IN A SINGLE HUMAN CELL  (15min)</p>
<p>TA5-S2-039 - Wang Yiran  SYNTHESIS OF AMORPHOUS OXIDE ELECTROLYTE NANOPARTICLES FOR ALL-SOLID-STATE BATTERY BY INDUCTION THERMAL PLASMA  (15min)</p>
<p>TA5-S2-041 - Byeong-II Min  SYNTHESIS OF 3-LITHIUM GARNET SOLID ELECTROLYTE FOR ALL SOLID STATE LITHIUM ION BATTERY BY INDUCTION THERMAL PLASMA  (15min)</p>
<p>TA5-S2-043 - Zihan Pan  THE EFFECTS OF PARTICLES VAPOR ON ARC PLASMAS  (15min)</p>

**D4M7-TA7.4**  
**SC: James Schrock**

TA7-S4-031 - Fatima Zahra BOUDARA  
ACCURATE 3D NUMERICAL MODELING AND EXPERIMENTAL VERIFICATION OF STRONGLY COUPLED UNSHIELDED PULSED ELECTROMAGNETIC COUPLER FOR SMART GRID APPLICATIONS  
(15min)

TA7-S4-032 - Feng Yu  
SOLID-STATE LINEAR TRANSFORMER DRIVER USING INDUCTIVE ENERGY STORAGE  
(15min)

TA7-S4-034 - Wasekul Azad  
A FOUR-STAGE CAPACITIVELY COUPLED HIGH-VOLTAGE SIC SWITCH POWERED BY A SINGLE GATE DRIVER  
(15min)

TA7-S4-035 - Matthew Woodyard  
DESIGN AND TESTING OF A COMPACT 1 MV CLASS TESLA TRANSFORMER  
(15min)

TA7-S4-036 - Roman Shapovalov  
SIDE-BY-SIDE COMPARISON OF STANDARD-BRICK AND DRY-BRICK PULSER CONFIGURATIONS  
(15min)

TA7-S4-037 - Roman Leduc  
HIGH FREQUENCY DATA CONVERSION SYSTEM WORKING UNDER ELECTROMAGNETICALLY DISTURBED ENVIRONMENT  
(15min)

TA7-S4-040 - Nail Tosun  
A COMPARISON O VELOCITY SKIN EFFECT MODELING WITH 2-D TRANSIENT AND 3-D QUASI-TRANSIENT FINITE ELEMENT METHODS  
(15min)

TA7-S4-044 - Edwin Oshin  
COLD PLASMA-INDUCED CHANGE IN ELECTRIC PROPERTIES OF CANCER CELLS IN VITRO  
(15min)

**D4M8-TA8.5**  
**SC: Yaxin Zhang**

TA8-S5-024 - Willie Padilla  
ACCELERATED TERAHERTZ METASURFACE DESIGN WITH DEEP LEARNING  
(Invited Talk - 30 min)

TA8-S5-028 - Ranjan Singh  
Title: GIANT KINETIC INDUCTANCE IN HIGH-TC SUPERCONDUCTING METACAVITIES  
(15min)

TA8-S5-012 - Lin Chen  
Title: TUNABLE PHASE TRANSITION IN ATR BASED METASURFACE AND ITS APPLICATIONS IN TERAHERTZ FINGERPRINT SENSING  
(15min)

TA8-S5-018 - Yue Wang  
SENSITIVE DETECTION OF CHLORPYRIFOS PESTICIDE USING TERAHERTZ METASURFACE  
(15min)

TA8-S5-026 - Wulin Tong  
THE SIMULATION ON ABSORPTION PROPERTIES OF DUAL SPLIT RING RESONATOR (DSRR)/GAAS-BASED BLOCKED IMPURITY BAND (BIB) HYBRID STRUCTURE  
(15min)

TA8-S5-027 - Rebecca Seviour  
BIO-INSPIRED THZ AND OPTICAL ARTIFICIAL ELECTROMAGNETIC MEDIA  
(15min)

**D4N1-TA1.4+TA1.1**  
**SC: Satoshi Hamaguch**

TA1-S4-013 - Quan-Zhi Zhang  
NON-LINEAR SHEATH OSCILLATION MECHANISM IN SYMMETRIC CAPACITIVELY COUPLED PLASMA SHEATHS  
(Invited Talk - 30 min)

TA1-S4-001 - Jon Tomas Gudmundsson  
THE INFLUENCE OF MAGNETIC FIELD ON THE DEPOSITION RATE AND IONIZED FLUX FRACTION IN HIPIMS DISCHARGES  
(15 min)

TA1-S4-006 - Yangyang Fu  
SIMILARITY OF LOW-PRESSURE RADIOFREQUENCY DISCHARGES  
(15 min)

TA1-S4-009 - Jian Chen  
NUMERICAL STUDIES ON THE NON-EQUILIBRIUM TRANSPORT OF CHARGED PARTICLES IN A CONFINED DECAYING PLASMA:  
EFFECTS OF THE ION RAREFACTION WAVES  
(15 min)

TA1-S1-033 - Denis Eremin  
INFLUENCE OF THE SECONDARY ELECTRON EMISSION ON PLASMA UNIFORMITY IN VHF LOW-PRESSURE CCP DISCHARGES  
(15 min)

TA1-S1-070 - Haoxuan Wang  
EXPERIMENTAL STUDIES OF ELECTRON EMISSION AND GAS BREAKDOWN FOR NANOSCALE DIODES AT ATMOSPHERIC  
PRESSURE  
(15 min)

TA1-S1-007 - M Campanell  
INNOVATIVE OPERATING MODES OF MANY PLASMA DEVICES ENABLED BY THERMIONIC SURFACES WITH INVERSE SHEATHS  
(15 min)

**D4N2-TA2.7**  
**SC: John Leopold**

TA2-S7-007 - Qiuyue Nie  
FUNDAMENTAL THEORY AND APPLIED TECHNOLOGY OF EM WAVE MODIFICATION AND CONTROL BY PLASMAS  
(Invited Talk - 30min)

TA2-S7-006 - Yang Cao  
HIGH-POWER MICROWAVE DRIVEN PLASMA WAKEFIELD IN A CYLINDRICAL WAVEGUIDE  
(15min)

TA2-S7-008 - Roman Zamchii  
EFFECT OF RF FIELDS ON ELECTRICAL BREAKDOWNS PRODUCED BY HIGH-VOLTAGE PULSES IN AIR AT AMBIENT CONDITIONS  
(15min)

TA2-S7-015 - Asif Iqbal  
STUDY OF SINGLE AND DUAL FREQUENCY RF DRIVEN MULTIPACTOR ON A DIELECTRIC IN THE FREQUENCY DOMAIN  
(15min)

TA2-S7-017 - Stephen Langellotti  
RESULTS ON THE DESIGN AND TESTING OF A COAXIAL MULTIPACTOR TEST CELL  
(15min)

**D4N4-TA4.6 + TA4.7**  
**SC: Fabio Conti**

<p>TA4-S6-039 - Andrea Schmidt SIMULATION-GUIDED EXPERIMENTS ON THE MEGAJOULE NEUTRON IMAGING RADIOGRAPHY (MJOLNIR) DPF (Invited Talk - 30 min)</p>
<p>TA4-S7-016 - Christian Linsmeier ADVANCED PLASMA-FACING MATERIALS FOR FUSION: DEVELOPMENTS AND PERSPECTIVES (Invited Talk - 30 min)</p>
<p>TA4-S6-051 - Fabio Conti GAS PUFF Z-PINCH EXPERIMENTS WITH NE, AR AND KR ON THE CESZAR LINEAR TRANSFORMER DRIVER (15min)</p>
<p>TA4-S7-014 - Cheng Zhang MODELING OF BERYLLIUM MELT MOTION AND SPLASHING UNDER ITER CONDITIONS (15min)</p>
<p>TA4-S7-017 - Shuyu Dai 3D SURO MODELLING OF BERYLLIUM EROSION AND DEPOSITION ON TUNGSTEN ROUGH SURFACES (15min)</p>
<p><b>D4N5-TA5.3</b> <b>SC: Xu Shuyan</b></p>
<p>TA5-S3-006 - Anshu Verma Ashish Ganguli ROLE OF MAGNETIC FIELD FOR EFFICIENT ELECTRON HEATING IN ECR PLASMAS FOR THRUSTER APPLICATION (15min)</p>
<p>TA5-S3-014 - John Slough PLASMA MAGNETO-SHELL AEROCAPTURE FOR PLANETARY MANNED AND CARGO MISSIONS (15min)</p>
<p>TA5-S3-018 - Kentaro Hara CROSS-FIELD ANOMALOUS ELECTRON TRANSPORT DUE TO MULTIDIMENSIONAL PLASMA INSTABILITIES (15min)</p>
<p>TA5-S3-008 - Sungrae Kim THE POWER REDUCTION OF THE AIR BREATHING HALL-EFFECT THRUSTER (15min)</p>
<p><b>D4N6-TA5.4</b> <b>SC: Renwu Zhou</b></p>
<p>TA5-S4-026 - Weizong Wang Title: COMPUTER MODELING OF PLASMA BASED NITROGEN FIXATION: SEARCH FOR A BETTER UNDERSTANDING OF THE UNDERLYING MECHANISMS (Invited Talk - 30min)</p>
<p>TA5-S4-046 - Steven Shannon Title: FASTER, SMALLER, DEEPER: THE CHALLENGES OF HIGH ASPECT RATIO ETCHING (Invited Talk - 30min)</p>
<p>TA5-S4-056 - Radha Krishna Murthy Bulusu Title: DEGRADATION OF PERFLUOROOCCTANOIC ACID (PFOA) IN A NANOSECOND PULSE PLASMA DISCHARGE GAS-LIQUID REACTOR (15min)</p>
<p>TA5-S4-057 - Peter P. Sun Xinhang Song Title: Plasma Oscope: Ex-Vivo Study of Disinfection Rat Eardrum by Microplasma Jet Array (15min)</p>
<p>TA5-S4-064 - Sayan Biswas Title: NANOSECOND REPETITIVELY PULSED LOW-TEMPERATURE PLASMA IGNITION OF METHANE/AIR (15min)</p>
<p>TA5-S4-054 - Ana Dias Title: PLASMAS: A WAY TO PRODUCE GRAPHENE-BASED HYBRID NANOSTRUCTURES AT INDUSTRIAL SCALE FOR A WIDE RANGE OF APPLICATIONS (15min)</p>

**D4N7-TA5.5**  
**SC: Michael Keidar**

TA5-S5-009 - Chunqi Jiang  
SYNERGISTIC EFFECTS OF NANOSECOND PULSED PLASMAS AND ELECTRIC FIELDS ON CELLS AND SKINS  
(Invited Talk - 30min)

TA5-S5-003 - Rajesh Prakash Guragain  
EFFECT OF ATMOSPHERIC PRESSURE AIR DBD PLASMA ON PHYSIO-CHEMICAL AND MICROBIAL PARAMETERS OF GROUNDWATER AND ITS USE IN AGRICULTURE  
(15min)

TA5-S5-013 - Naoyuki Iwata  
EFFECT OF RADICAL-ACTIVATED L-PHENYLALANINE SOLUTION ON SUPPORTED LIPID BILAYER  
(15min)

TA5-S5-019 - Petr Lukes  
INVESTIGATION OF OXYCHLORINE CHEMISTRY IN PLASMA TREATED SALINE SOLUTIONS  
(15min)

TA5-S5-036 - Dengke Xi  
LIQUAFACTION OF FECAL MATERIAL THROUGH PLASMA ELECTROLYSIS  
(15min)

TA5-S5-022 - Sander Bekeschus  
PLASMA-DERIVED ROS ELIMINATE MELANOMA IN AN IMMUNOGENIC FASHION IN VIVO  
(15min)

TA5-S5-028 – Liyang Zhang  
BIOLOGICAL EFFECTS OF ATMOSPHERICPRESSURE PLASMA JETS: IN SITU STUDY BY FOURIER TRANSFORM INFRARED SPECTROSCOPY  
(15 min)

**D4N8-TA8.6**  
**SC: Michael Johnston**

TA8-S6-025 - Amit Agrawal  
SHAPING LIGHT USING DIELECTRIC METASURFACES: FROM DEEP-UV TO THE TERAHERTZ  
(Invited Talk - 30 min)

TA8-S6-027 - Abul Azad  
DYNAMICAL WAVE-FRONT SHAPING AND EXTREME NONRECIPROCITY WITH SPATIO-TEMPORAL MODULATED METASURFACES  
(Invited Talk - 30 min)

TA8-S6-001 - Rong Wang  
CROP WATER STATUS MONITORING BY TERAHERTZ IMAGING  
(15min)

TA8-S6-003 - Weihao Zhang  
INTELLIGENT IDENTIFICATION OF MATERIALS BASED ON INTEGRATION OF TERAHERTZ SPECTROSCOPY AND ARTIFICIAL INTELLIGENCE  
(15min)

TA8-S6-006 - Wang Yueying  
ULTRA-FAST RESONANCE RESPONSE OF CANTILEVERED PROBE IN TDS S-SNOM  
(15min)

TA8-S6-023 - Payam Rabiei  
ELECTRO-OPTIC NANO-PHOTONIC DEVICES FOR DETECTION OF ELECTRIC FIELDS FROM DC TO THZ FREQUENCY RANGE  
(15min)

**Poster Session - 4 on Day 4**

TA1-S2-017 - Jarrod Leddy  
Title: PIC AND HYBRID SIMULATIONS OF PLASMA FORMATION IN SRF CAVITIES

TA1-S2-021 - Russell Hooper Title: ALEPH: HIGHLY SCALABLE UNSTRUCTURED PIC-DSMC LOW TEMPERATURE PLASMA CODE
TA1-S2-022 - Thomas Jenkins Title: GLOBAL MODEL DEVELOPMENT USING LEAST-SQUARES WEIGHTED RESIDUAL METHODS
TA1-S2-023 - Sergey Averkin Title: SIMULATION OF THE GROWTH OF CARBON NANOTUBES IN FLOWING PLASMAS USING PARTICLE-IN-CELL METHOD
TA1-S2-026 - Rinku Mishra Title: CHARACTERISTIC STUDY OF A PLASMA ANTENNA USING PIC SIMULATION
TA1-S2-027 - Tugba Piskin Title: THE SIMPLIFIED APPROACHES TO NANOSECOND PULSED DISCHARGE MODELING WITH COMPARISON OF EXPERIMENTAL AND NUMERICAL DATA
TA1-S2-031 - TIANNING ZHANG Title: Design of Meta-Surface using Machine Learning
TA1-S2-032 - Viktor Zheltukhin Title: SIMULATION OF LOW PRESSURE ICRF PLASMA FLOW IN NON-LOCAL APPROXIMATION
TA2-S5-010 - Wenjing Cai Title: GPU-ACCELERATION AND OPTIMIZATION OF 3D FASTPIC SIMULATOR
TA2-S5-021 - Ian Rittersdorf Title: A ONE-DIMENSIONAL MODEL FOR RAPID CALCULATIONS OF A MOLYBDENUM LOADED ALUMINUM NITRIDE CERAMIC COMPOUND MILLIMETER-WAVE ABSORBER FOR WIRELESS POWER BEAMING
TA2-S6-001 - Aviraj Jadhav Title: A NOVEL TE <sub>10</sub> TO TE <sub>30</sub> MODE CONVERTER INCORPORATING STEP TRANSFORMER AS A MATCHING ELEMENT
TA2-S6-002 - Aviraj Jadhav Title: DESIGN AND SIMULATION OF A 3.7 GHZ HIGH POWER CW MAGNETRON
TA2-S6-003 - Sandeep Sainkar Title: PERFORMANCE EVALUATION OF A 3.7 GHZ, 1 KW CW SOLID STATE SOURCE FOR LHCD SYSTEM OF SST-1 TOKAMAK
TA2-S6-004 - Shrey Thakkar Title: DESIGN AND SIMULATION OF A NOVEL TEM TO TE <sub>11</sub> MODE CONVERTER AT 3GHZ FOR HPM APPLICATIONS
TA2-S6-006 - Lauro Paulo Silva Neto Title: IMPROVING THE VOLTAGE MODULATION DEPTH OF RADIOFREQUENCY PRODUCED BY NONLINEAR TRANSMISSION LINES USING A SHOCK WAVE CONFIGURATION
TA2-S6-010 - Michael Perkins Title: SUCCESSFUL DEMONSTRATION OF A SHEET BEAM KLYSTRON AT S-BAND
TA3-S3-009 - Wei Jie Chan Title: ELECTRONIC COOLING OF NODAL-POINT SEMIMETALS AROUND ROOM TEMPERATURE
TA3-S3-012 - Chao-Hai Du Title: GENERATING ORBITAL ANGULAR MOMENTUM TERAHERTZ RADIATION BASED ON SPOOF SURFACE PLASMON
TA3-S3-016 - Do Thi Bich Hue Title: REVEALING ELECTRON SPILL-OUT IN PLASMONIC NANOSTRUCTURES USING PARTICLE SIMULATION
TA3-S3-017 - Stanislav Makarkin Title: STUDY THE SPENT ELECTRON BEAMS BASED LOW-VOLTAGE VIRCATOR
TA3-S3-006 - Lim Zhen Jie Jeremy Title: PARTICLE-IN-CELL SIMULATION OF PLASMONS
TA3-S3-023 - Ranajoy Bhattacharya Title: EFFECTS OF HIGH TEMPERATURE BAKEOUT ON GATED SILICON FIELD EMITTER ARRAYS
TA1-S2-007 - John Luginsland Title: KLIMOTOVICH, BOLTZMANN, AND VLASOV - WHAT ARE PIC CODES REALLY SOLVING? (moved from Day 3 to Day 4)

TA4-S6-044 - James Prager Title: SOLID-STATE HIGH VOLTAGE TRIGGER WITH FAST RISE TIME FOR HEDP APPLICATIONS
TA4-S6-047 - Dana Zimmer Title: INVESTIGATION OF CURRENT COUPLING PERFORMANCE IN Z MACHINE EXPERIMENTS WITH VARYING TRANSMISSION LINE AND LOAD HARDWARE GEOMETRIES
TA4-S6-048 - E. Sander Lavine Title: CHARACTERIZATION OF THE IMPLODING PLASMA SHEATH IN TRIPLE NOZZLE GAS-PUFF Z-PINCHES AT 1 MA
TA4-S7-006 - Joseph Vas Title: TAILORING THE MAGNETIC PROPERTIES OF COFEZRTA USING HIGH ENERGY IONS IN A DENSE PLASMA FOCUS DEVICE
TA4-S7-007 - Avinash Chaurasiya Title: EFFECT OF OXYGEN PLASMA ON MAGNETOELECTRIC PROPERTIES OF NIFE2O4/PVDF COMPOSITES
TA4-S7-008 - Priya Sharma Title: INVESTIGATION OF HELIUM ION INDUCED DAMAGE IN NANO-W USING UNU/ICPT DENSE PLASMA FOCUS DEVICE
TA4-S7-011 - Seongmin Hong Title: EVALUATION OF ULTRA HIGH TEMPERATURE CERAMIC COATED CARBON FIBER REINFORCED COMPOSITES USING 0.4 MW CLASS ARC HEATER
TA4-S7-013 - Mayank Mishra Title: STUDY OF SLOW FOCUS MODE OPERATION OF DENSE PLASMA FOCUS DEVICE FOR ION IMPLANTATION
TA5-S4-003 - Zhan Zhao Title: USING THE SHOCK WAVES GENERATED BY UNDERWATER ELECTRICAL EXPLOSION FOR SEWAGE SLUDGE DEWATERING
TA5-S4-006 - Sheng-Yi Tang Title: CHARACTERISTICS AND APPLICATIONS OF HIGH-CONCENTRATION OZONE GENERATORS
TA5-S4-008 - Anish Raut Title: PLASMA ENHANCED OPTO-ELECTRONIC PROPERTIES OF FLUORINE DOPED TIN OXIDE (FTO) THIN FILMS
TA5-S4-015 - Ye Sun Title: RAPID PLASMA PREPARATION OF SUPERHYDROPHOBIC POLYESTER FABRICS FOR HIGHLY EFFICIENT OIL-WATER SEPARATION
TA5-S4-017 - Jingjing Liu Title: EFFECT OF JET PLASMA ON THE SURFACE MODIFICATION OF COMPOSITE MATERIALS
TA5-S4-031 - Luqman Akasyah Title: PLASMA-BASED SYNTHESIS OF TRITANTALUM PENTANITRIDE FOR VISIBLE-LIGHT DRIVEN PHOTOCATALYTIC OVERALL WATER SPLITTING
TA5-S4-034 - Danhua Mei Title: PLASMA-ENABLED FAST LIQUEFACTION OF LIGNOCELLULOSIC BIOMASS: IMPACT OF BIOMASS FEEDSTOCKS
TA5-S4-036 - Jiawei Li Title: RESEARCH OF THE EFFECT OF WIRES-MESH CORONA DISCHARGE ON FOG DISSIPATION
TA5-S5-032 - Lutfi Oksuz Title: IMPACT OF PLASMA TREATMENT ON CHARACTERIZATIONS OF POLYMER COATED WOOL FABRICS
TA5-S5-042 - Takahiro Enoki Title: INFLUENCE OF PULSED ELECTRIC FIELD ON PHOTOSYNTHESIS OF LEAF LETTUCE
TA5-S5-047 - Aleksey Petrov Title: ACTION OF SUBNANOSECOND PULSED ELECTRIC FIELD ON HUMAN TUMOR CELLS
TA5-S5-051 - Aleksandra Lavrikova Title: THE EFFECT OF TRANSIENT SPARK DISCHARGE ON BACTERIAL ACTIVITY OF S. AUREUS AND E. COLI
TA5-S5-052 - Sirli Raud Title: IMPACT OF AMBIENT GAS COMPOSITION OF ARGON PLASMA JET ON PAM COMPOSITION AND CANCER CELL VIABILITY*

TA5-S4-038 - Jun Choi Title: IMPROVEMENT OF INDOOR AIR QUALITY BY SURFACE DBD
TA7-S4-039 - Travis Bejines Title: CINCO: PROGRESS ON A COMPACT 5-MA PULSER FOR HEDP
TA7-S4-041 - Nail Tosun Title: ELECTROMAGNETIC LAUNCHER SPEED CONTROL WITH A MULTILEVEL FAST TRIGGERING TIME ALGORITHM (MFTTA)
TA7-S4-042 - Roman Shapovalov Title: BLUE MILO AXIAL DIODE GAP OPTIMIZATION USING THE PULSED-POWER CIRCUIT CODE SCREAMER
TA5-S4-028 - Thomas Maho Title: GERMINATION RATE AND VIGOR STUDIES OF BELL PEPPER SEEDS AFTER LOW-PRESSURE AIR MICROWAVE PLASMA TREATMENT (added on 24 Nov)
TA8-S7-018 - Zhangliang Wang Title: DESIGN AND SIMULATION OF NOVEL HIGH GAIN TRAVELING WAVE TUBE
TA8-S7-030 - Yulia Oparina Title: MECHANIS OF STABILIZATION AND TERAHERTZ RADIATION FROM SHORT ELECTRON BUNCHES IN TWO-WAVE REGIMES
TA8-S7-038 - Sahil Jain Title: COLD TEST ANALYSIS OF W-BAND PLANAR INTERACTION STRUCTURE DEVELOPED USING MICRO FABRICATION TECHNIQUES
TA8-S8-001 - Kang Zhou Title: RIDGE WIDTH EFFECT ON COMB OPERATION IN TERAHERTZ QUANTUM CASCADE LASERS
TA8-S8-002 - Ziping Li Title: COMPACT TERAHERTZ MULTIHETERODYNE DUAL-COMB SPECTROSCOPY USING QUANTUM CASCADE LASERS
TA8-S8-005 - Zhanglong Fu Title: TERAHERTZ IMAGING WITH A QUANTUM CASCADE LASER AND A PIXELLESS IMAGING CHIP
TA1-S1-034 - Sebastian Wilczek Title: FUNDAMENTALS OF ELECTRON DYNAMICS IN LOW PRESSURE CAPACITIVELEY COUPLED RADIO FREQUENCY DISCHARGES (moved from 6 Dec to 9 Dec)
TA5-S1-036 - Bruno Caillier Title: SPECTROSCOPIC DIAGNOSTIC OF A KR DIELECTRIC BARRIER DISCHARGE, COMPARISON AND INTERPRETATION OF CHEMICAL PROCESS (added on 24 Nov)
<b>End of Day 4</b>



**Day 5 - 10 December 2020****PARALLEL SESSIONS****D5M1-TA1.5+TA1.1****SC: Chengran Du**

TA1-S5-014 - Yan Feng

Title: DYNAMICS OF TWO-DIMENSIONAL DUSTY PLASMAS MODIFIED BY SUBSTRATES

(Invited Talk - 30 min)

TA1-S5-010 - Michael Murillo

Title: MULTI-FIDELITY GAUSSIAN PROCESS REGRESSION FOR RAPID PLASMA PROPERTIES

(Invited Talk - 30 min)

TA1-S5-009 - Lucas Stanek

Title: EFFECTIVE PAIR POTENTIALS FOR DENSE PLASMA APPLICATIONS (15 min)

TA1-S5-016 - Tahreem Yousaf

Title: ION IMPLANTATION STUDY OF TUNGSTEN ALLOYS AS PLASMA FACING COMPONENTS (15 min)

TA1-S5-017 - Paul Bellan

Title: WHY INTERSTELLAR ICE DUST GRAINS SHOULD BE ELONGATED (15 min)

TA1-S1-072 - Yao Du

Title: MOLECULAR DYNAMIC SIMULATION OF THE EFFECTS OF GLANCING-ANGLE SCATTERINGS ON THE FORMATION OF HIGH ASPECT RATIO FEATURES

(15 min)

TA1-S1-021 - Thomas Orrière

EXPERIMENTAL STUDY OF NANOSECOND REPETITIVELY PULSED SPARK DISCHARGES IGNITION

(15 min)

**D5M2-TA2.7****SC: Yongdong LI**

TA2-S7-024 - Sudeep Bhattacharjee

Title: FOCUSED ION BEAM OPTICS DRIVEN BY SHEATH NONLINEARITY AND WAVE-PLASMA INTERACTION IN RESTRICTED GEOMETRY

(Invited Talk - 30min)

TA2-S7-023 - John Booske

Title: SIMULATION AND EXPERIMENTAL VERIFICATION OF MULTIPACTOR IN PARALLEL-PLATE MICROSTIPLINE STRUCTURE

(15min)

TA2-S7-027 - Chuji Wang

Title: CAVITY RINGDOWN MEASUREMENT OF OH(X) IN THE MICROWAVE PLASMA-ASSISTED IGNITION

(15min)

TA2-S7-031 - Yang Cao

Title: WAKE EXCITATION IN A CYLINDRICAL WAVEGUIDE DRIVEN BY A GIGAWATT SUB-NANOSECOND K-BAND MICROWAVE PULSE

(15min)

TA2-S7-032 - Taichi Sugai

Title: ANALYSIS OF EXPERIMENTAL MULTIPACTOR OBSERVATION SIGNALS USING SPARK3D SOFTWARE

(15min)

TA2-S7-033 - Zachary Shaw

Title: MULTIPACTOR SUSCEPTIBILITY IN PLANAR MICROWAVE GEOMETRIES

(15min)

TA2-S7-035 - Xiaoli Qiu

Title: INVESTIGATIONS OF GEOMETRIC MODIFICATIONS AND STATIC MAGNETIC FIELDS ON MULTIPACTOR MITIGATION IN RECTANGULAR WAVEGUIDES

(15min)

**D5M3-TA2.6****SC: Lalit Kumar**

<p>TA2-S6-007 - Travis Crawford  NONLINEAR PERMEABILITY MEASUREMENTS OF SINGLE AND DUAL INCLUSION COMPOSITES FOR NLTL SYSTEMS FROM 1-4GHZ  (15min)</p>
<p>TA2-S6-008 - Benedikt Esser  A HIGH POWER 2.85 GHZ GAN RF SOURCE FOR DIRECT DETECTION OF MULTIPACTOR RESEARCH  (15min)</p>
<p>TA2-S6-009 - Andrew Fairbanks  TESTING NONLINEAR TRANSMISSION LINES MADE OF NOVEL COMPOSITES  (15min)</p>
<p><b>D5M4-TA4.4</b>  <b>SC: Alla Safronova</b></p>
<p>TA4-S4-004 - Jonathan Wurtele  (15min)  CREATING AND CONTROLLING PLASMA-BASED OPTICAL ELEMENTS</p>
<p>TA4-S4-006 - Chen ZHANG  (15min)  DYNAMICALLY PRE-COMPRESSED HYDROCARBON STUDY ON SG-III PROTOTYPE LASERS</p>
<p>TA4-S4-007 - Chuansheng Yin  (15min)  STABILIZATION OF THE RAYLEIGH-TAYLOR INSTABILITY IN LASER-DRIVEN QUASI-ISENTROPIC COMPRESSION EXPERIMENTS</p>
<p>TA4-S4-020 - Ryan Childers  (15min)  EXPLORING THE FE/NI EMISSION LINE RATIO IN LABORATORY AND ASTROPHYSICAL PLASMAS</p>
<p><b>D5M5-TA5.4</b>  <b>SC: Allen Garner</b></p>
<p>TA5-S4-063 - Jim Browning  COLD ATMOSPHERIC PRESSURE PLASMA ARRAY FOR BIOFILM INACTIVATION  (Invited Talk - 30 min)</p>
<p>TA5-S4-066 - Katsushi Suenaga  Title: IMPROVEMENT OF AGGREGATION INHIBITION OF NANOPARTICLE DISPERSION BY NONTHERMAL PLASMA IRRADIATION  (15min)</p>
<p>TA5-S4-067 - Hideaki Fukuoka  Title : OZONE GENERATION USING A TUBE-TO-CYLINDER ELECTRODE FOR NANOSECOND PULSE GENERATOR WITH RAPID RISE TIME  (15min)</p>
<p>TA5-S4-069 - Sanjana Kerketta  OZONE GENERATION EFFICIENCY USING NANOSECOND PULSED PLASMA AT ABOVE ATM PRESSURES  (15min)</p>
<p>TA5-S4-072 - Gaurav Nayak  RAPID INACTIVATION OF VIRUS AEROSOLS BY DIELECTRIC BARRIER DISCHARGE IN AIR AT ATMOSPHERIC PRESSURE  (15min)</p>
<p>TA5-S4-074 - Teruaki Mori  SUPPRESSION OF ARC TRANSITION IN NANOSECOND PULSED DISCHARGE BASED OZONIZER  (15min)</p>
<p><b>D5M6-TA5.5</b>  <b>SC: Masafumi Ito</b></p>

<p>TA5-S5-010 - Michael Keidar  NEW UNDERSTANDING OF HOW COLD ATMOSPHERIC PLASMA TREAT CANCER  (Invited Talk - 30min)</p>
<p>TA5-S5-038 - Milad Rasouli  MECHANISMS OF SELECTIVE NON-THERMAL PLASMA EFFECTS TOWARDS CANCER AND NORMAL CELLS  (15min)</p>
<p>TA5-S5-039 - Ivana Sremacki  ANNULAR SHAPE RF JET IN CONTACT WITH AEROSOL: UV EMISSION CONTROL FOR SAFE BIOMEDICAL APPLICATION  (15min)</p>
<p>TA5-S5-040 - Zhitong Chen  MICRONEEDLE PATCH-ASSISTED COMBINATION OF COLD ATMOSPHERIC PLASMA AND IMMUNE CHECKPOINT BLOCKADE  (15min)</p>
<p>TA5-S5-041 - Li Lin  MACHINE LEARNING CONTROLLED SELF-ADAPTIVE PLASMA MEDICINE  (15min)</p>
<p>TA5-S5-043 - Meimei Lai  IMPACT OF SUBSTRATES ON OH PRODUCTIONS IN A NANOSECOND HELIUM PLASMA JET IMPINGING ON WATER, SALINE OR PIG SKIN  (15min)</p>
<p>TA5-S5-044 - Shahriar Mirpour  EFFECT OF COLD PLASMA ON DIABETIC FOOT ULCERS: A RANDOMIZED CLINICAL TRIAL  (15min)</p>
<p><b>D5M8-TA8.7</b>  <b>SC: Bo Zhang</b></p>
<p>TA8-S7-035 - Jagadishwar Sirigiri  HIGH POWER TERAHERTZ SYSTEMS FOR CHARACTERIZING BURNING PLASMAS  (Invited Talk - 30 min)</p>
<p>TA8-S7-009 - Yubin Gong  THz Radiation in Ion Focused Beam-Plasma System  (Invited Talk - 30 min)</p>
<p>TA8-S7-001 - Huibo Zhang  THE GENERATION OF COHERENT AND TUNABLE TERAHERTZ RADIATION FROM PLASMA MODULATED ELECTRON BEAMS  (15min)</p>
<p>TA8-S7-004 - Yang Liu  DEVELOPMENT OF PACKAGED G-BAND POWER AMPLIFIER BASED ON INP HEMT TECHNOLOGY UTILIZING NOVEL DE-EMBEDDING TECHNIQUES  (15min)</p>
<p>TA8-S7-010 - Andrey Arzhannikov  GENERATION OF DIRECTED FLUX OF MEGAWATT THZ RADIATION AS RESULT OF STRONG REB-PLASMA INTERECTION IN PLASMA COLUMN  (15min)</p>
<p>TA8-S7-014 - Hong Eun Choi  THE MEASUREMENT OF PERMITTIVITY USING TE01 MODE IN A CYLINDRICAL WAVEGUIDE BEYOND 300GHZ FREQUENCY BAND  (15min)</p>
<p><b>D5N1-TA1.6</b>  <b>SC: Min Suk Cha</b></p>
<p>TA1-S6-012 - Dae Hoon Lee  APPLICATION OF PLASMA FOR REFINERY PROCESSES  (Invited Talk - 30 min)</p>

<p>TA1-S6-003 - Sivanandan Harilal  GAS-PHASE MOLECULAR FORMATION IN ACTINIDE LASER-PRODUCED PLASMAS  (Invited Talk - 30 min)</p>
<p>TA1-S6-002 - Ahmad Hamdan  POSITIVE VS. NEGATIVE PULSED NANOSECOND AIR PLASMA IN CONTACT WITH WATER  (15 min)</p>
<p>TA1-S6-007 - Ramses Snoeckx  DEVELOPMENT AND VALIDATION OF A TEMPERATURE DEPENDENT PLASMACHEMICAL KINETICS SET FOR H/N/O SYSTEMS  (15 min)</p>
<p>TA1-S6-010 - Zhiling LI  X-RAY PHOTOELECTRON SPECTROSCOPY STUDY FOR TIO<sub>2</sub>-LIKE FILMS DEPOSITED BY RF INDUCTIVELY COUPLED PLASMA:  EFFECT OF GAS FLUX  (15 min)</p>
<p>TA1-S6-015 - THAI VAN-PHUOC  AC GLOW DISCHARGE ON LIQUIDS: UNIQUE PROPERTIES AND ITS APPLICATION FOR METAL NANOPARTICLE SYNTHESIS  (15 min)</p>
<p><b>D5N5--TA5.4</b>  <b>SC: Russell S. Brayfield</b></p>
<p>TA5-S4-076 - Osakpolo Isowamwen  PLASMA-ASSISTED DEGRADATION OF PERFLUOROBUTANE SULFONATE: THE INFLUENCE OF BULK LIQUID MASS TRANSPORT  ON PROCESS EFFECTIVENESS  (15min)</p>
<p>TA5-S4-079 - Yoan Bacqueyrisses  MEASUREMENTS OF PRESSURE WAVES GENERATED BY PULSED ELECTRIC DISCHARGES IN WATER  (15min)</p>
<p>TA5-S4-080 - Sagung Dewi Kencana  ATMOSPHERIC PRESSURE PLASMA SURFACE TREATMENT FOR SOLDERABILITY ENHANCEMENT ON PRINTED CIRCUIT  BOARDS  (15min)</p>
<p>TA5-S4-082 - Ferhat Bozduman  AN ALTERNATIVE STUDY FOR REDUCING SILICOSIS DISEASE BY PERFORMING DENIM BLEACHING WITH ATMOSPHERIC  PRESSURE PLASMA METHOD  (15min)</p>
<p><b>D5N6-TA5.5</b>  <b>SC: Chunqi Jiang</b></p>
<p>TA5-S5-045 - Naman Bhatt  DEVELOPING A LOW-COST DEPYROGENATION PROCESS USING ATMOSPHERIC PRESSURE PLASMAS  (15min)</p>
<p>TA5-S5-046 - Jaroslav Kristof  PERMEABILITY OF EPIDERMAL LAYER OF THE SKIN FOR ADENOSINE BY MICROPLASMA AND IONTOPHORESIS  (15min)</p>
<p>TA5-S5-049 - Milad Rasouli  HNT AS A BIODEGRADABLE CARRIER POLYMERIZED BY COLD ATMOSPHERIC PRESSURE PLASMA FOR IN VIVO RELEASE OF  CARBOPLATIN AND PACLITAXEL  (15min)</p>
<p>TA5-S5-050 - Amanda Loveless  A SIMPLIFIED THEORY UNIFYING ELECTROPORATION AND ACTION POTENTIAL PROPAGATION  (15min)</p>

<p>TA5-S5-053 - Sirli Raud  THE INFLUENCE OF O2, N2 OR AIR AMBIENT GASES ON PAM CHEMICAL COMPOSITION PRODUCED BY ARGON RF PLASMA JET*  (15min)</p>
<p><b>D5N8-TA8.8</b>  <b>SC: Hua Li</b></p>
<p>TA8-S8-006 - Taiichi Otsuji  TERAHERTZ CURRENT-DRIVEN LASING AND AMPLIFICATION IN GRAPHENE-BASED VDW HETEROSTRUCTURES  (Invited Talk - 30min)</p>
<p>TA8-S8-009 - Hua Li  TERAHERTZ FREQUENCY COMBS AND DUAL-COMB BASED ON QUANTUM CASCADE LASERS  (Invited Talk - 30min)</p>
<p>TA8-S8-010 - Kazuue Fujita  LOW-FREQUENCY TERAHERTZ QUANTUM CASCADE LASER BASED ON INTRA-CAVITY NONLINEAR MIXING  (Invited Talk - 30min)</p>
<p>TA8-S8-008 - Yan Xie  SELF-MIXING INTERFEROMETRY IN A TERAHERTZ QUANTUM CASCADE LASER WITH EXTERNAL DUAL CAVITY  (15min)</p>
<p><b>Poster Session - 5 on Day 5</b></p>
<p>TA1-S2-033 - Geonwoo Park  Title: AN INVESTIGATION OF THE PLASMA CHARACTERISTICS AS ARGON/OXYGEN RATIO IN A CAPACITIVELY COUPLED PLASMA USING 2-DIMENSIONAL PARTICLE-IN-CELL SIMULATION PARALLELED GPU.</p>
<p>TA1-S2-037 - Prem Kiran Paturi  Title: A ONE DIMENSIONAL NUMERICAL SIMULATION OF LASER PRODUCED AIR PLASMA INTERACTION WITH A METALLIC TARGET</p>
<p>TA1-S2-042 - Zakari Eckert  Title: BENCHMARK VERIFICATION OF THE ALEPH PIC-DSMC PROGRAM</p>
<p>TA1-S2-047 - Peter Stoltz  Title: A NEW ALGORITHM FOR SPACE CHARGE LIMITED FLOW</p>
<p>TA1-S2-049 - Dharitree Dutta  Title: PARTICLE-IN-CELL SIMULATION OF A CURRENT FREE DOUBLE LAYER</p>
<p>TA1-S2-054 - David Rose  Title: NEW ALGORITHM DEVELOPMENTS AND ADVANCED APPLICATIONS OF THE CHICAGO HYBRID PARTICLE-IN-CELL CODE</p>
<p>TA1-S2-003 - Suresh Basnet  Title: EFFECT OF PRESHEATH ELECTRON TEMPERATURE ON MAGNETIZED PLASMA-WALL TRANSITION AND WALL SPUTTERING BY PLASMA HAVING TWO SPECIES OF POSITIVE IONS</p>
<p>TA1-S3-016 - Rupinder Kaur  Title: PROPAGATION OF ION-ACOUSTIC SHOCK WAVES IN MAGNETIZED DENSE QUANTUM PLASMAS</p>
<p>TA1-S3-022 - Ling-Hsiao Lyu  Title: GENERATION AND EXPANSION OF WHISTLER-CHORUS WAVES IN THE EARTH'S MAGNETOSPHERE</p>
<p>TA2-S7-001 - Derek Neben  Title: A TEST SOURCE FOR THE PRODUCTION OF MILLIMETER-WAVE RF USING THE TWO-STREAM INSTABILITY</p>
<p>TA2-S7-005 - Xiaofang Zhu  Title: A NOVEL BEAM-WAVE INTERACTION FEEDBACK CIRCUIT FOR THZ RADIATION SOURCE</p>
<p>TA2-S7-010 - Li WU  Title: EXPERIMENTAL INVESTIGATION OF MICROWAVE FREQUENCY EFFECTS ON THE DISCHARGE PROPERTIES IN AN ATMOSPHERIC-PRESSURE COAXIAL PLASMA JET</p>
<p>TA2-S7-018 - Shen Shou Max Chung  Title: SIMULATION STUDY ON REDUCING AIRCRAFT ENGINE FRONT RADAR CROSS SECTION WITH ATMOSPHERIC PRESSURE PLASMA GENERATED BY DIELECTRIC BARRIER DISCHARGE</p>

TA2-S7-019 - Patrick Wong Title: MULTIPACTOR EFFECTS ON SIGNAL QUALITY IN TRANSMISSION LINES IVEN BY DIGITALLY MODULATED SIGNALS
TA2-S7-021 - Nikita Gurjar Title: ANALYSIS OF PLASMA ASSISTED W-BAND INTERACTION STRUCTURE
TA2-S7-034 - Kieran Wilson Title: DEVELOPMENT OF A PLASMA EXPERIMENT AND MICROWAVE SOURCES FOR FOR WAVE-PLASMA INTERACTION EXPERIMENTS
TA2-S7-036 - Pratik Ghosh Title: MODELLING AND SIMULATION OF GAS HEATING MECHANISM DURING HIGH POWER MILLIMETER WAVE BREAKDOWN IN AIR
TA2-S7-037 - Bengt Eliasson Title: ELECTRON CYCLOTRON EMISSIONS FROM MIRROR TRAPPED PLASMA: OBSERVATIONS AND MODELLING RESULTS
TA1-S4-011 - Viktor Zheltukhin Title: STUDYING OF THE INTERACTION BETWEEN LOW PRESSURE RF PLASMA AND ULTRAHIGH MOLECULAR WEIGHT POLYETHYLENE
TA1-S4-012 - Jung Yeol Lee Title: INDEPENDENT VARIABLES TO CONTROL A TIME-VARYING ENERGY DISTRIBUTION OF CHARGED SPECIES IN A CAPACITIVELY COUPLED PLASMA
TA1-S4-015 - Askar Davletov Title: IONIZATION POTENTIAL DEPRESSION IN PARTIALLY IONIZED HYDROGEN
TA1-S4-017 - Jia Han Title: THREE-DIMENSIONAL MEASUREMENTS OF FUNDAMENTAL PLASMA PARAMETERS IN PULSED ICP OPERATION
TA1-S4-010 - Yaoting Wang Title: COMPARISON AND ANALYSIS OF FLUID METHOD AND PIC METHOD FOR THE CHARGED PARTICLE TRANSPORT PROCESSES UNDER AN EXTERNALLY APPLIED ELECTROSTATIC FIELD
TA4-S7-015 - Rajdeep Singh Rawat Title: DENSE PLASMA FOCUS BASED NANOMATERIAL PROCESSING AND SYNTHESIS
TA4-S7-019 - Qiaojue Liu Title: STUDY ON AN/AP/AL MIXTURE POWDERS IGNITED BY MICROSECOND EXPLODING TUNGSTEN WIRE
TA1-S6-004 - Hyun Gyu Lee Title: COMPUTATIONAL MODELLING OF RONS GENERATION AND ITS ENHANCEMENT BY UV PHOTOLYSIS IN PLASMA-LIQUID SYSTEM
TA1-S6-005 - Jinhong Kim Title: MICROPLASMA-DRIVEN ATOMIC LAYER DEPOSITION OF ALUMINUM OXIDE ETCH-FREE PATTERNING, AND GALLIUM OXIDE-BASED FLEXIBLE DUV PHOTODETECTOR
TA1-S6-006 - Seunghwan Bang Title: GLYCEROL REFORMING IN AN AQUEOUS DISCHARGE REFORMER
TA5-S4-004 - Zhan Zhao Title: EFFECT OF CIRCUIT AND WIRE PARAMETERS ON MICROSECOND UNDERWATER ELECTIRCAL WIRE EXPLOSION WITH THE STORED ENERGY OF TENS OF KILO JOURLE
TA5-S4-039 - Min-Gyu Choi Title: EFFECT OF PLASMA INPUT POWER AND FEEDING SPEED ON THE SURFACE TEMPERATURES OF STAINLESS STEEL 316L DURING PLASMA ASSISTED MILLING
TA5-S4-049 - Noriyuki Sakudo Title: FLOATING REACTOR TO STABILIZE ION ENERGIES IN PLASMA DOPING
TA5-S4-050 - Amnon Fruchtman Title: MASS SEPARATION BY OSCILLATING ELECTROMAGNETIC FIELDS
TA5-S4-062 - Min Hwan Kim Title: DEVELOPMENT OF MICRO DISCHARGE PLASMA STERILIZING WATER AND STORAGE EQUIPMENT FOR AGRICULTURAL INDUSTRY

TA5-S4-065 - Jun Choi Title: DECOMPOSITION OF THE BIS(2-HYDROXYETHYL) TEREPHTHALATE (BHET) BY ATMOSPHERIC NONTHERMAL PLASMA
TA5-S4-071 - Wen Liu Title: DEVELOPMENT OF A NEW LIGHTNING PROTECTION DEVICE WITH A PSEUDOSPARK SWITCH AND SERIES ZINC OXIDE VARISTOR
TA5-S4-075 - Rikuo Iwasaki Title: NITRIC OXIDE REMOVAL USING NANOSECOND PULSED POWER GENERATOR EMPLOYING A PEAKING GAP SWITCH
TA5-S4-048 - Lufti Oksuz Title: PLASMA DISCHARGE IN WASTEWATER
TA5-S4-077 - Kazuto Ishibashi Title: CHARACTERISTIC EVALUATION OF LAMINER ATMOSPHERIC PRESSURE PLASMA JET WITH DOUBLE COAXIAL TUBE STRUCTURE BY DIRECTION OF APLIED ELECTRIC FIELD.
TA5-S4-083 - Mostafa Elsayed Hassan Title: INVESTIGATION OF OZONE AND HYDROGEN PEROXIDE TRANSPORT INTO WATER AEROSOLS AND BULK LIQUID
TA1-S5-004 - Lucas Stanek Title: HYBRID QUANTUM-HYDRODYNAMICS/MOLECULAR DYNAMICS FOR ULTRACOLD NEUTRAL PLASMAS
TA1-S5-008 - SUNIDHI SINGLA Title: INTERACTION OF DUST-ION ACOUSTIC SHOCKS IN QUANTUM DUSTY PLASMA
TA1-S5-015 - Askar Davletov Title: LOW FREQUENCY WAVES IN STRONGLY COUPLED DUSTY PLASMAS: QUASI-LOCALIZED CHARGE APPROXIMATION VERSUS SELF-CONSISTENT METHOD OF MOMENTS
TA1-S6-008 - Bahram Mahdavi pour Title: PLASMA CHEMISTRY SIMULATION OF A PLANAR DIELECTRIC BARRIER DISHCARGE IN AIR
<b>End of Day 5</b>