

## Hakone 2026 - Program (v11)

| Paper                                                                  | Authors                                                                                                | Title                                                                                                                                           |
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| <b>Session 1 [Monday AM, A-3502 building A]: Chair: R. Brandenburg</b> |                                                                                                        |                                                                                                                                                 |
| Invited-I1                                                             | A. Bourdon                                                                                             | Modeling and simulation of atmospheric pressure low-temperature plasmas                                                                         |
| O1-1                                                                   | H. Höft, C. Flores, K.-D. Weltmann, M. M. Becker                                                       | Analysis of Spatio-Temporal Ignition Patterns in Sinusoidal-Driven Dielectric Barrier Discharges in a Multi-Filament Arrangement                |
| O1-2                                                                   | Eliot Collard, Antoine Belinger, Nicolas Gherardi, Nicolas Naudé, Simon Dap, Hubert Caquineau          | Revisiting the memory effect in diffuse Nitrogen DBD using a fluid modeling approach                                                            |
| <b>Session 2 [Monday AM, A-3502 building A]: Chair: N. Osawa</b>       |                                                                                                        |                                                                                                                                                 |
| O1-3                                                                   | Fumiyoshi Tochikubo, Takuto Nozawa, Yusuke Nakagawa                                                    | Numerical Study of Filamentary Dielectric Barrier Discharges in Dry Air: Effects of Simulation Parameters and Model Dimensionality              |
| O1-4                                                                   | Julie Haton, Robin De Meyer, Antoine Belinger, Nicolas Naudé, Luc Stafford                             | On the Memory Effect and Discharge Characteristics of a Diffuse Dielectric Barrier Discharge in Various N <sub>2</sub> /O <sub>2</sub> Mixtures |
| O1-5                                                                   | L. Krös, H. Höft, M. Stankov, D. Loffhagen, J. H. van Helden, R. Brandenburg                           | Tunable diode laser absorption spectroscopy on a single-filament dielectric barrier discharge in argon at atmospheric pressure                  |
| O1-6                                                                   | Jakub Kellar, Michal Pazderka, David Brodnansky, Martin Karkus, Sebastian Dahle, Zlata Kellar Tucekova | Surface Engineering of Heterogeneous Bio-based Materials: Utilizing a Proprietary Hybrid Surface-to-Volume Dual-Frequency Discharge.            |
| O1-7                                                                   | Alexander Quack, Lennard Buck, Kerstin Sgonina, Jan Benedikt                                           | Influence of Differently Sized Dielectric Beads on Plasma Properties in Plasma Catalysis                                                        |
| <b>Session 3 [Monday PM, A-4502 building A]: Chair: N. Naudé</b>       |                                                                                                        |                                                                                                                                                 |
| Invited-I2                                                             | Atsushi Komuro                                                                                         | Physicochemical dynamics of atmospheric pressure streamer discharges: Numerical modeling and electric field measurement in DBDs                 |
| O2-1                                                                   | Jean-Baptiste Billeau, Denis V. Seletskiy, Svetlana Starikovskaia, Stephan Reuter                      | Defining the influence of electrical pulse parameters on atmospheric pressure plasma jet chemistry                                              |
| O2-2                                                                   | Alexander Schicke, Amira Noura, Sebastian Burhenn, Steffen Schüttler, Marc Böke, Judith Golda          | The impact of metastable atoms on Penning dissociation of CO <sub>2</sub> in an atmospheric plasma jet                                          |

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| O2-3                                                                   | Mohamed G. Elsheikh, Richard Sydora, Amina Hussien and Ahmad Hamdan                                                                                                                                        | Pulsed nanosecond discharge at heptane-water interface: influence of ambient pressure on bubble dynamics, interfacial instability, and emulsification efficiency             |
| <b>Session 4 [Monday PM, A-4502 building A]: Chair: L. Stafford</b>    |                                                                                                                                                                                                            |                                                                                                                                                                              |
| O2-4                                                                   | Michel Moisan                                                                                                                                                                                              | Reproducible plasma columns sustained by EM field with a linearly decreasing axial electron density that depends solely on the gas pressure, field frequency and tube radius |
| O2-5                                                                   | Philipp Wirth, Máté Vass, Thomas Mussenbrock                                                                                                                                                               | Global Chemistry Modeling of Biogas Conversion in Surface Dielectric Barrier Discharges with Vortex-Induced Mixing                                                           |
| O2-6                                                                   | Valentina Riazantceva, Lyes Sebih, Ahmad Hamdan, Emile Carbone, Zhangen Chen, Shuhui Sun                                                                                                                   | Relative Humidity Role in Discharge Mode Probability for Nanosecond Plasmas with a Confined Water Droplet                                                                    |
| O2-7                                                                   | Dante Filice, Sylvain Coulombe                                                                                                                                                                             | Pulsed RF Excitation in CO <sub>2</sub> -CH <sub>4</sub> Mixtures: Electrical Characteristics of Power Modulation                                                            |
| O2-8                                                                   | Sander Nijdam, Wouter Meekes                                                                                                                                                                               | Streamer diagnostics using a flexible fast pulse source                                                                                                                      |
| <b>Session 5 [Tuesday AM, A-4502 building A]: Chair: A. Bourdon</b>    |                                                                                                                                                                                                            |                                                                                                                                                                              |
| Invited-I3                                                             | Katharina Stapelmann, Jonathan E. Thomas, Kristina Pattison, Suneel Kumar, Francois Berthiaume, and Vandana Miller                                                                                         | Plasma endpoint detection for wound healing                                                                                                                                  |
| O3-1                                                                   | Joanna Pawlat, Agnieszka Mazur – Lesz, Elżbieta Grządka, Piotr Terebun, Dawid Zarzeczny, Michał Kwiatkowski, Agnieszka Starek – Wójcicka, Irena Malinowska, Magdalena Mnichowska-Polanowska, Monika Machoy | The influence of cold plasma on dental prosthetic materials                                                                                                                  |
| O3-2                                                                   | Adrien Gady, Gérard Bauville, Joël Lemaire, Pascal Jeanney, Michel Heninger, João Santos Sousa, Stéphane Pasquiers, Antoine Pallandre                                                                      | Synthesis of early life's buildings blocks using non thermal plasmas in microfluidic structures                                                                              |
| O3-3                                                                   | Tomoyuki Murakami and Ippei Saito                                                                                                                                                                          | Numerical Modeling of Physiochemical Reactions Induced by Plasma Stimulation                                                                                                 |
| <b>Session 6 [Tuesday AM, A-4502 building A]: Chair: M. J. Kushner</b> |                                                                                                                                                                                                            |                                                                                                                                                                              |
| O3-4                                                                   | Juliette Letellier-Bao, R. Thomas, L. Hermans, D. Rosenzweig, T. Gervais, D. Boffito, S. Coulombe, A. Bogaerts, S. Reuter                                                                                  | Combining microfluidics with cold physical plasma as a new theragnostic platform for personalized cancer redox therapy                                                       |

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| O3-5                                                                    | Emily M. Hong, Zhenyu Ma, Justin French, Herek L. Clack                                                                              | Non-thermal Plasma Inactivation of Airborne DNA Virus at Different AC Frequencies                                                                      |
| O3-6                                                                    | Sara Benmoussa, Guillaume de Lafontaine, Jacopo Profili                                                                              | Effects of Non-thermal Plasma Treatment on Seed Germination Physiology in Native Plant species of Eastern Quebec                                       |
| O3-7                                                                    | H. D. Stryczewska, K. Ebihara, O. Boiko, G. Komarzyniec, S. Aoqui, F. Mitsugi                                                        | Applications of Plasma in Agriculture: Results of Polish-Japanese cooperation                                                                          |
| <b>Session 7 [Tuesday PM, A-4502 building A]: Chair: H. Stryczewska</b> |                                                                                                                                      |                                                                                                                                                        |
| Invited-I4                                                              | Stephan Reuter                                                                                                                       | Control and diagnostic-based tailoring of plasma reactivity in health, environment, and agriculture                                                    |
| O4-1                                                                    | Ahmed I. Haroun, Jordan Figueiredo, Bassam Dally, Deanna A. Lacoste                                                                  | Characterization of H <sub>2</sub> O <sub>2</sub> Production in an Undiluted O <sub>2</sub> -H <sub>2</sub> O DBD Reactor                              |
| O4-2                                                                    | Stephane Simon, Laura Cacot, David Brassard, Jason R. Tavares, Frédéric Sirois, Stephan Reuter                                       | Electrical control of plasma chemistry: Tuning reactive species production in atmospheric DBDs                                                         |
| O4-3                                                                    | Pierre-Luc Girard-Lauriault, Avishek Banerjee, Saif Marji, Owen Armstrong, Gabriela Baez-Zaldivar                                    | Formation of Higher-Order Products from Liquid Organic Feedstocks in a Micro-second-Pulsed Gas-over-Liquid Dielectric Barrier Discharge                |
| O4-4                                                                    | Laura Cacot, Stéphane Simon, Alexandre Lapointe, David Brassard, Emilie Bédard, Jason R. Tavares, Stephan Reuter                     | Plasma-liquid interactions for hydroponics farms: a multi-phase diagnostic framework for reactor scale-up                                              |
| <b>Session 8 [Wednesday AM, A-4502 building A]: Chair: E. Carbone</b>   |                                                                                                                                      |                                                                                                                                                        |
| Invited-I5                                                              | François Reniers                                                                                                                     | New perspectives of dielectric barrier discharges for the deposition of thin films                                                                     |
| O5-1                                                                    | Léo Prévost-Notelet, Kevin Delcourt, Robin De Meyer, Houari Sahraoui, Luc Stafford                                                   | Accelerating the development of thin film deposition using an atmospheric pressure plasma torch through advanced optical diagnostics and digital twins |
| O5-2                                                                    | Sarah Hekking, Robin De Meyer, Charles Moderie, Antoine Goullet, Agnes Granier, Clément Maheu, Mireille Richard-Plouet, Luc Stafford | Plasma-surface effects in dielectric barrier discharges: investigating diffuse, filamentary and hybrid discharge modes for material processing         |
| O5-3                                                                    | Alessandro Patelli, Riccardo Fiorotto, Ehsan Shakerinasab, Alessandro Andreetto                                                      | Impact on surfaces of dual frequency pulsed+RF plasma jet in open air                                                                                  |

**Session 9 [Wednesday AM, A-4502 building A]: Chair: F. Tochikubo**

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| O5-4 | Oleksandr Boiko, Grzegorz Komarzynieć, Michał Aftyka, Marta Dziuba-Koziół, Grzegorz Koziół, Michał S. Gęca, Fumiaki Mitsugi, Henryka D. Stryczewska  | The influence of key operating parameters of the three-electrode gliding arc reactor on the NO <sub>x</sub> production efficiency  |
| O5-5 | Yiwei Jiang, Theo van de Ven, Jacopo Profili                                                                                                         | Plasma-Enhanced Siloxane Coating of Carboxymethylated Cellulose Films for Improved Hydrophobicity and Moisture Barrier Performance |
| O5-6 | Laura Cacot, Arghavan Yazdanpanah, Robin De Meyer, Heliam Klein, Mariam El Rachidi, Myrtil L. Kahn, Richard Clergereaux, Nicolas Naudé, Luc Stafford | Aerosol-Assisted Thin Film Deposition in a Dielectric Barrier Discharge: Effect of the Precursor on the Deposition Mechanisms      |
| O5-7 | Jordan Figueiredo, Bassam Dally, Deanna Lacoste                                                                                                      | In-flight reduction of iron oxides from various sources by hydrogen plasma                                                         |

**Session 10 [Wednesday PM, A-4502 building A]: Chair: J. Profili**

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| O6-1 | F. Massines, A. Perdrau, A. Najah, B. Plujat, H. Glenat, S. Eichendorff, Y. Gorand, E. Bèche, N.Barros | An innovative process to synthesize gold/polymer nanocomposite thin films in a dielectric barrier discharge                         |
| O6-2 | Richard Krumpolec, Monika Stupavská, Tereza Rybová, František Zelenák, Mirko Černák                    | Surface Activation and Nitrogen-Based Functionalisation of Porous Materials by a Novel Linear Atmospheric-Pressure DCSBD Plasma Jet |
| O6-3 | Yusuke Nakagawa, Yusei Takano, Fumiyoshi Tochikubo                                                     | Anisotropic Hydrophilization of Resins Using Atomic Oxygen Produced by Laser Photolysis of O <sub>3</sub>                           |
| O6-4 | Jeremy Pothier, James McGettrick, Gaétan Laroche and Jacopo Profili                                    | Enhancing the Durability of PECVD Antifog Coatings for Mining Inspections                                                           |
| O6-5 | Lyes Sebih, Emile Carbone, Ahmad Hamdan                                                                | Mechanisms of anisotropic silver growth in pulsed plasma–liquid discharges: Interfacial confinement and oxidative etching           |

**Session 11 [Wednesday PM, A-4502 building A]: Chair: K. Stapelmann**

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| O6-6 | B. Sadeghi, L. Kuijpers, V.M. Fischer, C.F.A.M. van Deursen, W.E.N. van Harskamp, C.F. Lopez-Camara, W.A. Bongers, P.C. Thüne, M.C.M. van de Sanden | Microwave Plasma Methane Pyrolysis: carbon collection and quality analysis                              |
| O6-7 | Xingyu Chen, Jiaqi Tang, Mauritius C.M. van de Sanden                                                                                               | Quantifying Atomic Oxygen Flux in an Atmospheric-Pressure Microwave Induced Plasma Decapsulation System |

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| O6-8                                                                   | Ronny Brandenburg, Jafet Ortiz Valverde, Hamed Mahdikia, Rüdiger Hink, Jan Hummel, Dirk Uhrlandt           | On the Characterization of Gliding Arc Discharges in Carbon Dioxide Containing Gases at Atmospheric Pressure      |
| O6-9                                                                   | Hermina Beica                                                                                              | Etalon Spectrometry: Principles and Applications for High-Resolution Plasma Diagnostics                           |
| <b>Session 12 [Thursday AM, A-4502 building A]: Chair: S. Coulombe</b> |                                                                                                            |                                                                                                                   |
| Invited-I6                                                             | Tom Huiskamp, Chiel Ton, Mohsen Mortazavi, Bas Dekker, Guus Pemen                                          | The scalability of streamer discharge generation for industrial air purification                                  |
| O7-1                                                                   | Clay Davis, Thomas Holsen, Selma Mededovic Thagard                                                         | The role of bubble hydrodynamics in plasma-based PFAS treatment                                                   |
| O7-2                                                                   | Prisca Stephanie Kandjo Ngoubeyou, Dunpin Hong, Hervé Rabat, Benoit Cagnon, Béatrice Vallee, Olivier Aubry | Non-thermal plasma-Fe functionalized activated carbon coupling for PFOA removal in water                          |
| O7-3                                                                   | Jisu Jeon, Tiago C. Dias, Stephen Olson, Xuefei Qiu, Selma Mededovic Thagard, Mark J. Kushner              | PFOA Plasma Degradation in Water: Long-Time-Scale Modeling Investigation                                          |
| <b>Session 13 [Thursday AM, A-4502 building A]: Chair: N. Gherardi</b> |                                                                                                            |                                                                                                                   |
| O7-4                                                                   | Koichi Sasaki, Tsukasa Yamakawa, Yoshinobu Inagaki                                                         | Synthesis of ammonia using atmospheric-pressure nitrogen and water vapor plasmas                                  |
| O7-5                                                                   | Marc Böke, Henrik van Impel, Yue Cheng, David Steuer, Volker Schulz-von der Gathen, Judith Golda           | Characteristics of a Micro-cavity Plasma Array for Gas Conversion                                                 |
| O7-6                                                                   | Catherine Batiot-Dupeyrat, Samy Bouacem, Thomas Orrière, Deborah De Masi, Paul Hazemann                    | Plasma and Plasma-catalysis coupling for hydrogen production from H <sub>2</sub> S decomposition                  |
| O7-7                                                                   | Carlo van Melis, Tom Huiskamp, Wilfred Hoebe                                                               | Plasma-driven upgrading of hydrocarbons with CO <sub>2</sub>                                                      |
| O7-8                                                                   | A. Hecimovic, R. Antunes, C. Kranig, A. Meindl, U. Fantz                                                   | Reverse water gas shift in microwave plasma for O <sub>2</sub> removal and CO <sub>2</sub> conversion enhancement |

**Poster Presentations [Atrium, Building B]: Chairs: A. Hamdan, M. Kushner**

| <b>Paper</b> | <b>Authors</b>                                                                                                    | <b>Title</b>                                                                                                                                                            |
|--------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P01          | Sander Nijdam, Jianan Wang, Jordin Janssen, Lucia Svandova, Ayush Kumar                                           | Update on “Bottled Lightning” project                                                                                                                                   |
| P02          | Koichi Sasaki, Raio Torihama, Yoshinobu Inagaki                                                                   | Anomalous lifetime of hydrogen TALIF in a stainless-steel chamber equipped with atmospheric-pressure hydrogen-argon mixture plasma: possible contribution of impurities |
| P03          | Miloud Mohamed Mahdi Boussa, Lyes Sebih, Ahmad Hamdan                                                             | Experimental and numerical investigation of nanosecond discharges in air gap with hemispherical dielectric layer                                                        |
| P04          | Julien Lauzé                                                                                                      | Space and Phase Resolved Optical Emission Spectroscopy of Pulse-RF Plasma                                                                                               |
| P05          | Francisco Javier Morales Calero, Antoine Durocher-Jean, Fatima Khazem, Luc Stafford.                              | Hyperspectral Imaging for 2D spectroscopic characterization of atmospheric pressure Ar–CO <sub>2</sub> plasmas                                                          |
| P06          | Alex Bessin, Antoine Belinger, Simon DAP, Nicolas Naudé, Nicolas Gherardi                                         | A dual-zone discharge cell for probing memory effects in atmospheric pressure diffuse DBDs                                                                              |
| P07          | Léo Prévost-Nottelet, Kevin Delcourt, Antoine Durocher-Jean, Robin De Meyer, Houari Sahraoui, Luc Stafford        | Optical and hyperspectral characterization of the plume of an atmospheric plasma torch for organosilicon thin film deposition                                           |
| P08          | X. Mallet , A. Belinger , N. Gherardi , N. Naudé, S. Dap                                                          | Influence of gas residence time on breakdown characteristics in CO <sub>2</sub> Atmospheric Pressure Townsend Discharges                                                |
| P09          | Jean-Philippe Comtois, J. Santos Sousa, F. Sirois, I. Korolov, T. Bolles, D. Seletskiy, T. Mussenbrock, S. Reuter | Molecular excitation in plasma jets powered by ns-pulse sustain                                                                                                         |
| P10          | Théo Sillaire, Amina Hussein, Ahmad Hamdan                                                                        | Nanosecond discharge in heptane-water emulsion: influence of droplet distribution on the discharge characteristics                                                      |
| P11          | Yujiro Kanda, Kei Takahashi, Soushi Hirota, Naoki Osawa                                                           | Investigation of Charged Particle Desorption Characteristics from Barrier Surfaces: Capable and Incapable of Generating APTD in Air                                     |
| P12          | Naoki Higashi                                                                                                     | A multi-fluid Euler–Poisson scheme with discrete conservation of total energy                                                                                           |
| P13          | Shinobu Ono, Yujiro Kanda, Naoki Osawa                                                                            | Investigation of Temporal Evolution in Surface Potential during Atmospheric Pressure Townsend Discharge in Air: Effects of Applied Voltage Waveform                     |

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| P14 | Julien Trahan, Jean-Baptiste Billeau, Alexandre Lapointe, Jean-Philippe Comtois, Stephan Reuter                                                           | Modeling and Characterization of Low Flow Plasma Actuators                                                                                                                         |
| P15 | Christina Strilets, Abdulhakeem O. Yusuf, Nicholas F. Beier, Audren Dorval, Ahmad Hamdan, Richard Sydora, Amina Hussein                                   | Laser-Driven X-rays for Imaging Pulsed Discharges in Liquids                                                                                                                       |
| P16 | Nicholas Stine, Jitlekha Tubsuri, Christopher M. Sales, Alexander Fridman                                                                                 | Minimization of Hazardous By-products During the Destruction of Hydrofluoro-carbon Contaminated Oils via Liquid Injection Incineration Catalyzed by Non-thermal Gliding Arc        |
| P17 | Alessandro Patelli, Mattia Negrisolo, Alberto Miotto, Giulia Tomei, Riccardo Fiorotto, Ehsan Sha-kerinasab, S.M.Wahaj Ejaz, Enzo Menna, Ester Marotta     | Low temperature degradative desorption of perfluorooctanoic acid (PFOA) from granular activated carbon (GAC) induced by atmospheric plasma                                         |
| P18 | Patryk Ludera, Maxence Lévesque, Michel Ouellet, Jacopo Profili                                                                                           | Degradation of Methylene Blue in Water Using Cold Atmospheric Plasma                                                                                                               |
| P19 | Roxanne Thomas , Juliette Letellier-Bao, Dante Filice, Lisa Hermans, Annemie Bogaerts, Daria C. Boffito, Sylvain Coulombe, Thomas Gervais, Stephan Reuter | Decoupling Plasma-Induced Redox Chemistry in liquids via Space-Resolved Microfluidics for Oncology applications                                                                    |
| P20 | Elène Bizeray, Antoine Belinger, Simon Dap , Nicolas Gherardi, Luc Stafford , Fiorenza Fanelli, Nicolas Naudé                                             | An aerosol-assisted dielectric barrier discharge process for nanocomposite thin film deposition in N <sub>2</sub>                                                                  |
| P21 | Kevin Delcourt, Léo Prévost-Nottelet, Robin De Meyer, Houari Sahraoui, Luc Stafford                                                                       | Towards a data-driven Digital Twin for plasma-enhanced thin film deposition: combining neural networks, hybrid modeling and AI-assisted experimentation                            |
| P22 | Zoé Michon, Léo Prévost-Nottelet, Alexis Paillet, Myrtil L. Kahn, Richard Clergereaux, Luc Stafford                                                       | Impact of temperature in surface treatment of ZnO nanoparticles by a low power blown arc plasma jet                                                                                |
| P23 | Isaac Triplett, Pierre-Luc Girard-Lauriault, Ahmad Hamdan                                                                                                 | Investigation of the Products Resulting from the Application of a Streamer Discharge to a Liquid-Liquid Interface Containing Metal Salts with a Wide Range of Reduction Potentials |
| P24 | C. Moderie, N. Naudé , R. Martel, L. Stafford                                                                                                             | Defect Formation in Graphene via Localized and Global Energy Deposition in Filamentary and Diffuse Dielectric Barrier Discharges                                                   |
| P25 | Marie Brabant, Jehan Waeytens, François Reniers                                                                                                           | Modulation of Localized PMMA Coatings by Carrier Gas in AP-PACVD                                                                                                                   |

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| P26 | Elio Eid, Ahmad Hamdan                                                                                                                                             | Influence of plasma treatment conditions on the production of reactive species in water and on the modification of its surface tension |
| P27 | Juliette Zveny, Antoine Remy, Amélie Bourgeois, Teo Serra, Anne Botteaux, Jacques Devière, Arnaud Lemmers, Alain Dechambre, Antoine Nonclercq and François Reniers | Impact of water-filled biofilm in plasma decontamination of endoscopes                                                                 |
| P28 | Gebremedhin Gebremariam Gebremical, Junior Bernardo Molina Hernandez, Silvia Tappi, Luigi Ragni, Clemencia Chaves Lopez, Massimiliano Rinaldi and Pietro Rocculi   | Effects of Cold Atmospheric Plasma on Microbial Inactivation, and Quality Changes of Mechanically Fluidized Maize Flour                |