

Organized by

CO IN



2nd Edition of

Carbon Science and Technology

From Discovery to Applications



October 26-28, 2026 |



Paris, France



TENTATIVE
AGENDA

VENUE

Millennium Hotel Paris Charles de Gaulle
2 Allée du Verger, 95700 Roissy-en-France
Paris, France



www.carbonscitech.com/



secretary@carbonscitech.com

WELCOME

2nd Edition of Carbon Science and Technology

On behalf of the Organizing Committee, we are delighted to welcome you to the 2nd Edition of the International Conference on Carbon Science and Technology (C-Horizon 2026). Over three days in Paris, the program brings together keynote lectures from distinguished scientists, oral and invited presentations, and networking opportunities spanning the full breadth of carbon science — from fundamental chemistry to applied materials, energy, catalysis, and sustainability.

This document presents the tentative program as of the date below. We look forward to your participation and to an engaging exchange of ideas across the carbon science community.

GENERAL INFORMATION

Dates	October 26–28, 2026
Venue	Millennium Hotel Paris Charles de Gaulle — 2 Allée du Verger, 95700 Roissy-en-France, Paris, France
Registration & Badge Pick-Up	08:00 – 08:20
Inauguration	08:20 – 08:30
Keynote Presentation Format	25 + 5 minutes (30 minutes total: presentation + discussion)
Oral Presentation Format	18 + 5 minutes (20 minutes total: presentation + discussion)
Website	www.carbonscitech.com
Contact	secretary@carbonscitech.com carbon-horizon@coin-connect.net +1 512-270-2990

Program Last Updated On: August 24, 2026

Last-minute changes due to functional, private, or organizational needs may be necessary. The event organizer accepts no liability for any additional costs caused by a change of program. The program is subject to change.

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TOPICS COVERED

● Carbon; Graphene, Nanotube, Fullerene, Diamond	● Electrochemistry and Applications
● Carbon in Catalysis	● Environmental Applications
● Carbonization and Graphitization	● Biological and Medical Applications
● Carbon Fibres and Composites	● Carbon Alloys & Their Applications
● Hydrocarbons & Biofuels	● Carbon in Energy Storage and Conversion
● Computational Modeling and Simulation in Carbon Science	● Industrial Applications & Commercialization of Carbon Technologies
● Inorganic and Organic Chemistry	● Physico-Chemical Properties, Synthesis & Characterization
● Carbon Materials Synthesis and Characterization	● Quantum Chemistry
● Low-Dimensional, 2D & 3D Materials	● Nano Chemistry
● Nanomaterials and Nanotechnology	● Green Chemistry & Synthetic Chemistry
● Materials Science and Engineering	● NetZero & Sustainability
● Nanoscience and Materials Chemistry	● Technological Advancement in Organic Synthesis
● 3D Printed Materials	● Reaction Chemistry and Engineering

KEYNOTE PRESENTATIONS

Each keynote lecture runs 25 minutes, followed by 5 minutes of discussion (30 minutes total).

**KN-01****Title To Be Announced****Qiang Zhang** — Tsinghua University, China**BIOGRAPHY**

Professor Qiang Zhang is a Full Professor in the Department of Chemical Engineering at Tsinghua University, China. He received his Ph.D. from Tsinghua University and subsequently conducted research at Case Western Reserve University (USA) and the Fritz Haber Institute of the Max Planck Society (Germany). He is internationally recognized for his pioneering contributions to advanced energy materials and rechargeable battery technologies. Prof. Zhang has authored over 300 peer-reviewed publications and is consistently listed among the world's Highly Cited Researchers by Clarivate. He serves on the editorial and advisory boards of several leading journals in energy and materials science and has received numerous prestigious national and international awards for his contributions to electrochemistry and energy storage research.

**KN-02****Title To Be Announced****Rabah Boukherroub** — University of Lille & CNRS, France**BIOGRAPHY**

Prof. Rabah Boukherroub is a CNRS Research Director and Group Leader of the NanoBioInterfaces (NBI) group at the Institute of Electronics, Microelectronics and Nanotechnology (IEMN), University of Lille, France. He earned his Ph.D. in Organic and Organometallic Chemistry from Paul Sabatier University, Toulouse, France, and later obtained his Habilitation in Materials Chemistry from the University of Versailles. He is internationally recognized for his pioneering work in nanostructured functional materials and surface chemistry. Prof. Boukherroub serves as an Associate Editor of ACS Applied Materials & Interfaces and has authored more than 700 peer-reviewed publications, numerous book chapters, and holds several patents in nanotechnology and advanced materials. His research has significantly contributed to the development of innovative nanomaterials for biomedical, environmental, and energy applications. He has received several prestigious national and international awards for excellence in scientific research.

**KN-03****High-performance Filter Capacitors assembled with Integrated 3D carbon Nanostructures****Bingqing Wei** — University of Delaware, Newark, DE, USA**BIOGRAPHY**

Professor Bingqing (B.Q.) Wei is the George W. Laird Professor of Mechanical Engineering and Director of the Center for Fuel Cells and Batteries at the University of Delaware, USA. He received his B.S., M.S., and Ph.D. in Mechanical Engineering from Tsinghua University, China. Prior to joining the University of Delaware in 2007, he served as an Assistant Professor at Louisiana State University and as a Research Scientist at Rensselaer Polytechnic Institute. Prof. Wei is internationally recognized for his pioneering contributions to nanomaterials and nanotechnology for sustainable energy applications. He has published more than 400 peer-reviewed journal articles, is a Clarivate Highly Cited Researcher, a Fellow of the Royal Society of Chemistry (RSC), and serves as the inaugural Field Chief Editor of Frontiers in Nanotechnology. His research has significantly advanced carbon nanostructures for energy conversion and storage technologies.

**KN-04****Title To Be Announced****Steven Stevenson** — Purdue University, Fort Wayne, IN, USA**BIOGRAPHY**

Professor Steven Stevenson is a Professor of Chemistry at Purdue University Fort Wayne and serves as the Director of the FIRST Molecules Research Center (Fullertube Interdisciplinary Research, Science & Technology). He earned his Ph.D. in Analytical Chemistry from Virginia Tech, where he specialized in metallofullerene research. With more than three decades of experience in fullerene chemistry, he is internationally recognized for the discovery of several novel carbon nanostructures, including trimetallic nitride endohedral metallofullerenes and the recently discovered fullertubes. Prof. Stevenson has received numerous grants from the U.S. National Science Foundation, holds multiple patents, and has authored numerous high-impact publications, including papers in Nature and the Journal of the American Chemical Society (JACS). His research has advanced the understanding of carbon nanomaterials and their applications in energy, electronics, and nanotechnology.

**KN-05**

Is Graphite an Anode or Just a Capacitive Negative Electrode in Lithium-Ion Batteries?

Hubert Girault — EPFL, Switzerland

BIOGRAPHY

Professor Hubert H. Girault is Emeritus Professor of Physical and Analytical Chemistry at the École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. He obtained his Ph.D. from the University of Southampton, UK, and has established an internationally recognized career in electrochemistry and analytical chemistry. Prof. Girault is renowned for his pioneering contributions to electrochemistry at liquid–liquid interfaces, microfluidics, and mass spectrometry. He has authored over 500 scientific publications, several books, and numerous patents, and has received many prestigious international awards for his research achievements. Throughout his career, he has mentored generations of scientists while advancing innovative technologies for chemical analysis, energy conversion, and biomedical applications. His work has significantly influenced modern electrochemistry and analytical sciences.

**KN-06**

Title To Be Announced

Kenneth M. Golden — University of Utah, Salt Lake City, UT, USA

BIOGRAPHY

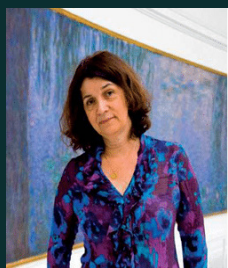
Professor Kenneth M. Golden is a Distinguished Professor of Mathematics at the University of Utah and an internationally renowned expert in applied mathematics and climate science. He earned his Ph.D. in Mathematics from New York University's Courant Institute of Mathematical Sciences. Prof. Golden is widely recognized for pioneering the use of mathematical theory to understand the physical properties of sea ice and its role in the Earth's climate system. He has authored more than 200 scientific publications, served as Director of the Vertical Integrated Projects (VIP) Program at the University of Utah, and has led numerous interdisciplinary research initiatives funded by the U.S. National Science Foundation and other agencies. He is a Fellow of the Society for Industrial and Applied Mathematics (SIAM), the American Physical Society (APS), the American Mathematical Society (AMS), and the American Association for the Advancement of Science (AAAS). His contributions have significantly advanced the mathematical understanding of complex composite materials and polar climate processes.

**KN-07****Title To Be Announced****Raúl Arenal** — Universidad de Zaragoza-CSIC, Spain**BIOGRAPHY**

Professor Raúl Arenal is a Research Scientist at the Spanish National Research Council (CSIC), affiliated with the Instituto de Nanociencia y Materiales de Aragón (INMA, CSIC–Universidad de Zaragoza), Spain. He earned his Ph.D. in Physics from the University of Zaragoza and has held research positions at leading international institutions, including the National Institute for Materials Science (NIMS), Japan, and CNRS laboratories in France. Prof. Arenal is internationally recognized for his expertise in advanced electron microscopy and spectroscopy for nanomaterials characterization. He has authored more than 250 peer-reviewed scientific publications and has made significant contributions to understanding the structure and properties of low-dimensional nanomaterials. His research integrates cutting-edge microscopy techniques with materials science to address challenges in nanotechnology, energy, and electronics.

**KN-08****Title To Be Announced****Cuong Pham-Huu** — CNRS, University of Strasbourg, France**BIOGRAPHY**

Professor Cuong Pham-Huu is a CNRS Research Director at the Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES), University of Strasbourg, France. He obtained his Ph.D. in Materials Chemistry from the University of Strasbourg and has established an internationally recognized research program in heterogeneous catalysis and nanostructured materials. Prof. Pham-Huu has authored more than 600 peer-reviewed publications, several book chapters, and holds numerous international patents. His research has made significant contributions to the design of advanced carbon-based catalysts and nanomaterials for sustainable energy and environmental applications. He has coordinated several major European and international collaborative research projects and serves on the editorial boards of leading journals in catalysis and materials science. His work bridges fundamental materials chemistry with industrial applications in clean energy and green chemical processes.

**KN-09****Title To Be Announced****Mireille Blanchard-Desce** — University of Bordeaux, France**BIOGRAPHY**

Professor Mireille Blanchard-Desce is a Distinguished Professor of Chemistry at the University of Bordeaux and a leading scientist at the Bordeaux Institute of Molecular Sciences (ISM), CNRS, France. She earned her Ph.D. in Chemistry from the University of Angers and has established an internationally recognized research program in molecular photonics and advanced functional materials. Prof. Blanchard-Desce is widely known for pioneering the design and synthesis of highly efficient nonlinear optical chromophores and fluorescent molecular probes. She has authored more than 300 peer-reviewed publications, several book chapters, and holds multiple patents in the fields of molecular photonics and bioimaging. She is a Fellow of the European Academy of Sciences and has received numerous national and international awards for her outstanding contributions to chemistry and photonic materials. Her research bridges organic chemistry, photophysics, and biomedical imaging for advanced optical applications.

**KN-10****Title To Be Announced****Martin Kalbáč** — J. Heyrovsky Institute of Physical Chemistry, Czech Republic**BIOGRAPHY**

Professor Martin Kalbáč is a Senior Scientist and Head of the Department of Electrochemical Materials at the J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Czech Republic. He earned his Ph.D. in Physical Chemistry from Charles University in Prague and has established an internationally recognized research program in carbon nanomaterials and electrochemistry. Prof. Kalbáč has authored more than 250 peer-reviewed scientific publications and is widely known for his pioneering contributions to the electrochemistry and spectroscopy of graphene, carbon nanotubes, and other low-dimensional materials. His work combines advanced spectroscopic techniques with electrochemical methods to investigate the fundamental properties of nanostructured materials. He has coordinated numerous European research projects and collaborates extensively with leading international research institutions in nanoscience and materials chemistry.

**KN-11**

AI and Emerging Electronics Materials to Answer Digitalization Demands

Rodrigo Ferrão de Paiva Martins — NOVA University Lisbon, Portugal

BIOGRAPHY

Professor Rodrigo Ferrão de Paiva Martins is a Distinguished Professor of Materials Science at NOVA University Lisbon and one of Europe's leading researchers in advanced functional materials and electronics. He is the founder and former Director of the Centre of Excellence in Microelectronics, Optoelectronics and Processes (CENIMAT), now integrated into CENIMAT|i3N. Prof. Martins has played a pioneering role in the development of transparent and flexible electronic technologies based on oxide semiconductors. He has authored more than 700 scientific publications, holds numerous international patents, and has supervised a large number of graduate researchers. He is a member of several prestigious scientific academies, including the European Academy of Sciences, and has received numerous international awards for his contributions to materials science and sustainable technologies. His research has had a significant impact on next-generation electronics, renewable energy, and smart materials.

INVITED & ORAL PRESENTATIONS

No.	Presentation Title	Speaker & Affiliation
OP-01	Simulation of Iron Ore Direct Reduction Using Biomass – A Step Forward to the Decarbonization of the Steel Industry	Frank Rogener, TH Köln – Institute of Materials and Process Technology, Germany
OP-02	Carbon Management – From Vision to Industrial Application	Görge Deerberg, Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT, Germany
OP-03	Energy-Efficient Catalytic Cracking of Light-Naphtha Over Zeolite-Based Composite for On-Purpose Propylene Production	Shinya Hodoshima, Research & Development Center, Chiyoda Corporation, Japan
OP-04	Catalytic Hydrogenation of Dibenzyltoluene-Based LOHC Using Non-Noble Mono- and Bi-Metal Catalysts	Asnakech Lass-Seyoum, University of Applied Sciences Berlin, Germany
OP-05	Tailoring Resistive Switching in Graphene-Based Memristors via Laser Processing	Eric Williams-Linera, INAOE, Mexico
OP-06	An Innovative Fabrication Route for Wrinkled Silver-Based Nanoporous Material	Damien Thiry, University of Mons, Belgium
OP-07	Carbon Materials in Battery Electrodes: From Conductive Additives to Active Components	Bharathi Konkana, Trinity College Dublin, Ireland
OP-08	Title To Be Announced	Paul O'Connor, Yerrawa, Netherlands
OP-09	Title To Be Announced	Martin Nielsen, Technical University of Denmark, Denmark
OP-10	Investigations of Carbonatization of Synthetic Hydroxyl Apatite OH-apatite via Ball Milling Activation	Vilma Petkova Stoyanova, Institute of Mineralogy and Crystallography, Bulgarian Academy of Sciences, Bulgaria
OP-11	Interface Engineering of Low-Dimensional Materials for Sustainable Environmental Applications.	Inmaculada Jéniffer Gómez, CICA, University of A Coruña, Spain
OP-12	Efficient Carbon Capture by Growing and Separation of Wood	Hans-Otto Carmesin, University of Bremen, Germany
OP-13	Carbon Nanoparticle–Liquid Crystal Composites: Experimental Studies and Theoretical Modelling	Cristina Cirtoaje, National University of Science and

No.	Presentation Title	Speaker & Affiliation
		Technology Politehnica Bucharest, Romania
OP-14	Multiplexed Fluorescent Polymeric Microstructures Sequentially Encoded via Two- Photon Click Tetrazole-Based Chemistry	Jean-Pierre Malva, Institut de Science des Matériaux de Mulhouse (CNRS UMR 7361), France
OP-15	Molecular Engineering of a Tailored Additive for Morphology Control and Performance Enhancement in Mixed Pb-Sn Perovskite Solar Cells	Venanzio Raglione, National Research Council of Italy, Italy
OP-16	Heterojunction-Based Strategies for CO ₂ Photoreduction	Edith Luévano-Hipólito, Centro de Investigación en Materiales Avanzados (CIMAV), Mexico
OP-17	Extended Influence of Near-Surface Effects: A Unique Property of Electrochemical Systems	Victor G. Mairanovsky, Sci-Society WIGB Berlin, Germany
OP-18	Magnetically Separable Nickel Ferrite/Graphene Oxide Nanocomposite for Removing Cr(III) Ions from Water	Umapada Pal, Instituto de Física, Universidad Autónoma de Puebla (BUAP), Mexico
OP-19	Colloidal Au and Ag Nanoparticles from Sargassum Extract and Their Biocarbon Composites: Catalytic Performance Study	Mou Pal, Instituto de Física, Universidad Autónoma de Puebla (BUAP), Mexico
OP-20	Title To Be Announced	Dmitri Kilin, North Dakota State University, Fargo, ND, USA
OP-21	Title To Be Announced	Shanthi Iyer, North Carolina A&T State University, Greensboro, NC, USA
OP-22	Title To Be Announced	Séverine A.E. Boyer, CNRS – MINES Paris PSL, France
OP-23	Title To Be Announced	Anna Prazanova, Czech Technical University in Prague, Czech Republic
OP-24	Title To Be Announced	Vusala Nabi Jafarova, Azerbaijan State Oil and Industry University, Azerbaijan

No.	Presentation Title	Speaker & Affiliation
OP-25	Title To Be Announced	Afrina Piya Khan, University of Leeds, United Kingdom
OP-26	Title To Be Announced	Delphine Schaming, Université Paris Diderot – Paris 7, France
OP-27	Title To Be Announced	Pierre Audebert, Université Paris-Saclay, CNRS, France
OP-28	Dual Emissive Carbon Dots for Sensing Applications	Xiangcheng Sun, Rochester Institute of Technology, Rochester, NY, USA
OP-29	Title To Be Announced	Farooq Sher, Nottingham Trent University, United Kingdom
OP-30	Title To Be Announced	Mohammed Al Bahri, A'Sharqiyah University, Oman
OP-31	From Solar to Commodity	Wolfgang Winkler, Hamburg University of Applied Sciences, Germany
OP-32	Carbon Supports Impact on the Catalytic Performance of Ni-Based Catalysts in CO ₂ Methanation	Aboubakr M. Abdullah, Qatar University, Qatar
OP-33	Title To Be Announced	J. Andreas Larsson, Luleå University of Technology, Sweden
OP-34	Title To Be Announced	Robert E. Przekop, Adam Mickiewicz University in Poznań, Poland
OP-35	Title To Be Announced	Arash Kardani, Politecnico di Milano, Italy
OP-36	From Ferroic Order to Spin Polarization: New Paradigms for Next-Generation Energy Conversion	Simrjit Singh, VŠB – Technical University of Ostrava, CATRIN, Czech Republic
OP-37	Tubular 1D van der Waals Heterostructures	Izabela Janowska, ICPEES, UMR CNRS 7515, France
OP-38	Catalytic Decomposition of Methane (CH ₄) Using Thermal Spray Coatings	Jordi Poater, Universitat de Barcelona, Spain

No.	Presentation Title	Speaker & Affiliation
OP-39	Zn(S,O) as CdS Alternative in Sb ₂ Se ₃ Solar Cells: Simulation Prediction and Experimental Validation	Yi-Cheng Lin, National Changhua University of Education, Taiwan
OP-40	Mechanochemical Approach for the Fabrication of Carbon-Based (Nano)Composites: From Environmental Remediation to Electrochemical Sensing Devices	Mijoung Joung, Yonsei University, South Korea
OP-41	Multi-Material 3D Printing at the Nanoscale	György Keglevich, Budapest University of Technology and Economics, Hungary
OP-42	Upcycling Polyolefins with Tandem Reaction Strategy	Junjie Du, University of Science and Technology of China, China
OP-43	Title To Be Announced	Petros Symeon, University of Cambridge, United Kingdom
OP-44	Title To Be Announced	Chokri Cherif, TUD Dresden University of Technology, Germany
OP-45	Title To Be Announced	Apostolis Koutsoukis, Trinity College Dublin, Ireland
OP-46	Title To Be Announced	Salvatore Sortino, University of Catania, Italy
OP-47	Versatile Applications of Carbon Allotropes for Modern Technologies	Fedor V Kusmartsev, Khalifa University, United Arab Emirates
OP-48	Impact of Carbonate Inert Filler on the Water Curing of White Cement Mortars as Green Approach to Circular Economy	Vilma Petkova Stoyanova, Institute of Mineralogy and Crystallography, Bulgarian Academy of Sciences, Bulgaria
OP-49	Dual Emissive Carbon Dots for Sensing Applications	Xiangcheng Sun, Rochester Institute of Technology, Rochester, NY, USA
OP-50	Scientific Perspectives on the Synergy Between Environmental Engineering and Eco-Urbanism: Enabling Adaptive, Low-Carbon, Climate-Resilient, Regenerative, and Sustainable Urban Systems Through Integrated Ecological Innovation	Nodar Sulashvili, Georgian International University Giu, Georgia

No.	Presentation Title	Speaker & Affiliation
OP-51	Solid-State Synthesis of MXenes-Based Heterostructures	Ashik Manoj Neelur University at Buffalo, Buffalo, NY, USA
OP-52	Conversion of Levulinic Acid to Gamma-Valerolactone Over Ce and La-based Perovskite Catalysts	Themba E Tshabalala Sol Plaatje University South Africa
OP-53	Fabrication and Characterization of a Microreactor Made of Pd-loaded Carbonized Tracheid Thin Plates	Kenta Kakiuchi University of Colorado Boulder, CO, USA
OP-53	Title To Be Announced	PRITI MANON Amity University Punjab Mohali, India
OP-54	Title To Be Announced	Muhammad Maqbool Teesside University United Kingdom
OP-55	Title To Be Announced	Shadab Alam Teesside University United Kingdom
OP-56	Versatile Applications of Carbon Allotropes for Modern Technologies	Fedor V Kusmartsev Khalifa University, Arab Emirates

A dark teal rectangular graphic with a repeating hexagonal pattern. At the top center is a circular icon containing a stylized yellow robot head. Below the icon, the text "CALL FOR PARTICIPATION" is written in small, yellow, uppercase letters. The main headline "Presentation Slots Are Available" is centered, with "Presentation Slots" in white and "Are Available" in yellow. Below this, the text "Submit your abstract and confirm your slot to join the C-Horizon 2026 program." is in white. A yellow button with the text "SUBMIT YOUR ABSTRACT →" is centered below the text. At the bottom, the text "C-HORIZON 2026 • PARIS, FRANCE • OCTOBER 26-28" is written in small, white, uppercase letters.

CALL FOR PARTICIPATION

Presentation Slots Are Available

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SUBMIT YOUR ABSTRACT →

C-HORIZON 2026 • PARIS, FRANCE • OCTOBER 26-28

CONTACT & VENUE

We look forward to welcoming you in Paris.

Venue	Millennium Hotel Paris Charles de Gaulle 2 Allée du Verger, 95700 Roissy-en-France, Paris, France
Website	www.carbonscitech.com
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