CRISTMas 2026 — SNAIA · POEM · HERMES | Programme at a Glance | Chimie ParisTech, Paris, 7–11 December 2026

Monday, 7 December — Bienvenue à Paris: Welcome Reception & Early Registration, Galerie, 17.00 - 19.00

Tuesday, 8 December

POEM · SNAIA

Bibliothèque

REGISTRATION AND MORNING COFFEE
08.30 - 09.00

OPENING CEREMONY
09.00 - 09.15

Academia to Business
09.15 - 10.45

PLENARY TALK
Thomas Webster
+
PANEL DISCUSSION
(Bibliothèque)

COFFEE BREAK
10.50 - 11.10

Chirality, Ultrafast & Ultrasmall I
11.10 - 12.50

Ki Tae Nam
Nicholas A. Kotov
Margarita Khokhlova
Emanuele Coccia
Emilija Petronijevic

LUNCH
12.50 - 13.40

Q-MADE: Quantum Materials and Device Engineering I
13.40 - 15.15

Maria Kafesaki
Suvankar Chakraverty
Neha Kondal
Stephan Götzinger
Vanshree Parey

Salle du Conseil

Optomechanical Manipulation: Fundamentals and Applications
13.40 - 15.10

Anton Zasedatelev
Boris Desiatov
Tal Carmon
Ye Ai
Sergei Geiman

COFFEE BREAK
15.15 - 15.35

Smart, Functional Fibers and Textiles I
15.35 - 16.55

Yongyi Zhao
Syamantak Payra
Graham Altschuler
Jinwon Song
Stella Laperrousaz

New Materials Development, Nanocoatings and Characterisation
15.35 - 16.50

Boris Wareppam
Rodrigo Villegas
Sergejs Gaidukovs
Hamid Khoshdel
Mouhcine Ourbaa

POSTER SESSION
WINE RECEPTION
17.00 - 19.00

Wednesday, 9 December

POEM · HERMES · SNAIA

Bibliothèque

REGISTRATION AND MORNING COFFEE
08.30 - 09.00

Chirality, Ultrafast & Ultrasmall II
08.50 - 10.10

Reiko Oda
Jize Yan
Davide Faccialà
Ji-Young Kim

COFFEE BREAK
10.10 - 10.30

Nanophotonics I
10.30 - 12.10

Ventsi Valev
Louise Bradley
Mohsen Rahmani
Laurène Tribolet
Egor Evlyukhin

Moissan

Louvre Museum Cultural Visit

HERMES Delegates

Salle 4

LUNCH
12.10 - 13.00

PLENARY TALK
Trinitat Pradell (Bibliothèque)
13.00 - 14.00

HERMES — Heritage Science I
14.00 - 15.00

Justine Marie Vernet
Mariangela Cestelli Guidi
Danilo Dini

Nanomaterials in Biology and Medicine I
14.00 - 15.00

Silvia Giordani
Surbhi Sharma
Pavel Bezrukov

Innovations in Energy I
14.00 - 15.00

Mostafa Shawky Eraky Mohamed
Rudzani Sigwadi
Tebogo Mashola
Abdelkader El Kissani

COFFEE BREAK
15.00 - 15.20

Optical Systems and Networks
15.20 - 16.35

Toms Salgals
Inga Brice
Dmytro Vovchuk
Rodions Marstupa

Smart Fibers and Terahertz Photonics — Joint Session
15.20 - 16.50

Fabien Sorin
Maksim Skorobogatiy
Fabio Novelli
Jérôme Tignon

Materials for Energy, Catalysis, Sensing and Cosmetic Science
15.20 - 16.50

Viktor Filatov
Daba Thiogne Bakhoum
Rohini B. Shinde
Shalini Dubey
Mansoor Alruqi
Maxwell Thatyana

POSTER SESSION
WINE RECEPTION
17.00 - 19.00

Thursday, 10 December

POEM · SNAIA · HERMES

Bibliothèque

REGISTRATION AND MORNING COFFEE
08.30 - 08.50

Smart, Functional Fibers and Textiles II
08.50 - 10.45

Roy Kishony
Peter Mosley
Michael Fokine
Yuanyuan Guo
Etienne Le Bourdonnec
Sylvain Danto
Hamilton Osoy

COFFEE BREAK
10.45 - 11.05

Smart, Functional Fibers and Textiles III
11.05 - 13.10

Burak Temelkuran
Daosheng Deng
Nicolas Joly
Mehmet Bayindir
Kristina Rusimova
Stephanos Yerolatsitis
Noel Healy
Tural Khudiyev

Chaudron

Friedel

Salle 4

LUNCH
13.10 - 14.00

HERMES — Heritage Science II
14.00 - 15.30

Ortwin Hess
David Citrin
Giuseppina Padeletti
Maria Pia Casaletto

Chirality, Ultrafast & Ultrasmall III
14.00 - 15.20

Stefan Rotter
Peter Hommelhoff
Said Ergoktas
Ebrahim Karimi

Smart, Functional Fibers and Textiles IV
14.00 - 15.30

Shandon Hart
Gang Chen
Xiaoting Jia
Noam Fink

Nanomaterials in Biology and Medicine II
14.00 - 15.30

Rafaela Queiroz
Isabelle Freitas de Paiva
Hugo de Campos Braga
Narender Kumar
Dayane Batista Tada
Maryssa Hachem

COFFEE BREAK
15.30 - 15.50

HERMES — Heritage Science III
15.50 - 16.50

Daniel Caurant
Gilles Wallez

Nanophotonics II
15.50 - 17.00

Jonas Johansson
Ksenia Mamaeva
Ziad Abi Akar
Anjali Sharma

Smart, Functional Fibers and Textiles V
15.50 - 16.45

Alexander Gumennik
Katia Zolotovsky
Yan Meng

Innovations in Energy II
15.45 - 17.00

Serkan Kılıçtek
Hamza Fiaz
Iman Ghasemi Ardali
Noureddine Lebrini
Vladimír Zeleňák

PLENARY TALK
Yoel Fink (Amphithéâtre Friedel)
17.00 - 18.00

GALA DINNER
19.00 - 22.00

Friday, 11 December

POEM · SNAIA · HERMES

Bibliothèque

REGISTRATION AND MORNING COFFEE
08.30 - 09.00

Q-MADE: Quantum Materials and Device Engineering II
10.20 - 11.20

Swapnil Deshpande
Kirtanjot Kaur
Nirbhay Singh
Kripesh Kambikkathu Veettil

Moissan

PLENARY TALK
Ortwin Hess and Alina Karabchevsky (Bibliothèque)
11.20 - 12.20

LUNCH
12.20 - 13.00

HERMES — Heritage Science IV
13.00 - 14.35

Luca Tortora
Daniele Chiriu
Gabriella Di Carlo
João Pedro Veiga
Abdellatif Afandy

Nanophotonics III
13.00 - 14.00

Ilya Goykhman
Alex Hayat
Pavel Ginzburg

COFFEE BREAK
14.35 - 14.55

Chirality, Ultrafast & Ultrasmall IV
14.55 - 16.55

Robert Cameron
Gil Markovich
Nicola Mayer
Emilio Pisanty
Tal Ellenbogen
Hamed Merdji

Innovations in Energy III
14.55 - 16.20

Hani Barhom
Gilbert Daniel Nessim
Subin Kaladi Chondath
Naiara L. Marana
Buket Yılmaz

CLOSING CEREMONY & BEST PRESENTATION AWARDS
(Bibliothèque)
17.00 - 17.20

NIGHT AT THE LOUVRE
Guided tours 18.00 and 19.00

Programme Schedule

MONDAY, 7TH DECEMBER 2026

Galerie

17.00 - 19.00	BIENVENUE À PARIS — WELCOME RECEPTION & EARLY REGISTRATION

TUESDAY, 8TH DECEMBER 2026

08.30 - 09.00	REGISTRATION & MORNING COFFEE

Bibliothèque

09.00 - 09.15	OPENING CEREMONY Anna Baldycheva, General Chair — STEMM Global Scientific Society, University of Exeter, INNANO Ltd.
09.15 - 10.45	Academia to Business
09.15 - 09.45	Plenary TALK - Thomas Webster (Brown University| Hebei University of Technology, USA) "35 Years of a Professor Commercializing Academic Research to Humans: The Good, the Bad, and the Ugly"
09.45 - 10.45	PANEL DISCUSSION — Academia to Business
10.50 - 11.10	COFFEE BREAK & NETWORKING
11.10 - 12.50	Chirality, Ultrafast & Ultrasmall I Chair: Ventsi Valev, Nicola Mayer
11.10 - 11.30	Ki Tae Nam (Seoul National University) "Peptide-Induced Chirality in Metal Nanoparticles"
11.30 - 11.50	Nicholas A. Kotov (University of Michigan) "Chiral Phonons"
11.50 - 12.10	Margarita Khokhlova (Kings College London) "Chiral moments make chiral measures"
12.10 - 12.30	Emanuele Coccia (Universita' di Trieste) "Simulating the photoinduced response of chiral molecules: from plasmonic effects to X-ray circular dichroism"
12.30 - 12.50	Emilija Petronijevic (Sapienza University of Rome) "Photo-acoustic effect around nanostructures for scattering-free, spectral and spatial characterization of chirality"
12.50 - 13.40	LUNCH
13.40 - 15.15	Q-MADE: Quantum Materials and Device Engineering I Chair: Neha Kondal
13.40 - 14.00	Maria Kafesaki (University of Crete, Greece) "Tailoring the Scattering Response of a Cylinder through Time-Periodic Modulation"
14.00 - 14.20	Suvankar Chakraverty (Institute of Nanoscience and Technology) "What is a Good Crystal?"
14.20 - 14.40	Neha Kondal (Chandigarh University, India) "Mn-Induced Electronic and Interfacial Engineering of MoS2/V2O5 Nanocomposites for Enhanced Electrochemical Energy Storage"
14.40 - 15.00	Stephan Götzinger (Friedrich Alexander University Erlangen–Nuremberg, Max Planck Institute for the Science of Light) "Ultimate photonics: one photon, one molecule"

15.00 - 15.15	Vanshree Parey (Harish-Chandra Research Institute (HRI), Prayagraj, India) "Strain-Induced Rashba Splitting Driven Catalytic Performance Enhancement in Bismuth Oxychalcogenides Bi2O2X and Bi2OX2 (X= S, Se)"
15.15 - 15.35	**COFFEE BREAK & NETWORKING**
15.35 - 16.55	Smart, Functional Fibers and Textiles I Chair: Alexander Gumennik
15.35 - 15.55	Yongyi Zhao (MIT) "Textile intelligence: From Functional Fiber to Clinical Measurement"
15.55 - 16.10	Syamantak Payra (Stanford University) "TBA"
16.10 - 16.25	Graham Altschuler (MIT) "Networked Fabrics: From Individual Computing Fibers to Coherent Distributed Systems"
16.25 - 16.40	Jinwon Song (École polytechnique fédérale de Lausanne (EPFL), Switzerland) "Thermally Drawn Elastomeric Single-Mode Optical Fibres for Optical Data Interconnects"
16.40 - 16.55	Stella Laperrousaz (EPFL, Switzerland) "Liquid-metal-based electronic fibers for smart textiles"

Salle du Conseil

13.40 - 15.10	Optomechanical Manipulation: Fundamentals and Applications Chair: Pavel Ginzburg
13.40 - 14.00	Anton Zasedatelev "Mid-infrared quantum light generation and control through polariton optomechanics"
14.00 - 14.20	Boris Desiatov (Bar-Ilan University, Israel) "Chip-Scale Photonic and Surface Acoustic Wave Devices"
14.20 - 14.40	Tal Carmon (Tel Aviv University, Israel) "TBA"
14.40 - 14.55	Ye Ai "Precise Acousto-electric Manipulation of Microscale Cells and Nanoparticles"
14.55 - 15.10	Sergei Geiman (Tel Aviv University, Israel) "Engineering High-Order Rotational Micro-Doppler with Magneto-Electric Metastructures"
15.15 - 15.35	**COFFEE BREAK & NETWORKING**
15.35 - 16.50	New Materials Development, Nanocoatings and Characterisation
15.35 - 15.50	Boris Wareppam "Time-Resolved OES Study of Dual RF Plasma enhanced PLD for Controlled V-O-N Film Growth"
15.50 - 16.05	Rodrigo Villegas "Dual RF Plasma-Enhanced Pulsed Laser Deposition of TiO2 and N-Doped TiO2 Thin Films"
16.05 - 16.20	Sergejs Gaidukovs (Riga Technical University, Latvia) "Nanocellulose as a Source of Advanced Materials for Multifunctionality"
16.20 - 16.35	Hamid Khoshdel (University of Aveiro, Portugal) "Dual-Mode Optical Thermometry and Magnetometry Using NV-Center Nanodiamonds"
16.35 - 16.50	Mouhcine Ourbaa "Nitrogen-annealing-induced interfacial diffusion in RF sputtered SnO2/Cu/SnO2 multilayers toward improved photocatalytic performance"

17.00 - 19.00	**WINE RECEPTION & POSTER SESSION (Galerie)**

POSTER SESSION 1 — Galerie

17.00 - 19.00	WINE RECEPTION & POSTER SESSION 1 (Tuesday 8 December)
P1	Layan Abuharbid (German Jordanian University) "Microstructural Consolidation of Umm Ishrin Sandstone in Petra Using Alkoxysilane and Nanolime Treatments: A Materials Science Approach to Salt-Induced Deteriorat"
P2	Ye Ai "Efficient Intracellular Delivery of Macromolecules and mRNA via Cell Mechanoporation in Viscoelastic Microfluidics"
P3	Eglė Aleknaitė "Materiality Revealed: Integrating Conservation Research into Museum Exhibition Narratives – The Lithuanian Case of The Yellow Woman"
P4	Seloua Atlassi (Cadi Ayyad University, Morocco) "Effect of water-to-glycerol ratio on the thermal conductivity of graphene nanofluids: An experimental study"
P5	Akshay Balachandran (Queensland University of Technology, Australia) "Biopolymer-Enabled Programmable Transient Organic Electrochemical Transistors for Sustainable and Disposable Bioelectronics"
P6	Mounira Beldi (Badji Mokhtar University Annaba) "Microstructural Evolution and Tribological Behavior of Nanostructured Ti80Ni20 Alloy Prepared by Mechanical Alloying"
P7	Alexandra Benediková (Technical University of Liberec, Czech Republic) "From Wood to Electrodes: A Comparative Study of Lignin-Derived Microfibers and PAN-Based Carbon Nanofibers for Electrochemical Applications"
P8	Elisabetta Borsella (ENEA, Rome, Italy) "AFM-Raman Characterization of Graphene-like Carbon Nanostructures Engineered from Waste-Derived Precursors for Catalytic Applications"
P10	Priyanka Dubey "Anion-Exchange-Driven Control of Interfacial Charge Transfer in CsPbBr3−xClx Perovskite Nanocrystal–Fullerene Interfaces"
P11	Soumi Dutta "Exploring the Structural Response of 2D Layered Perovskites to Lewis-Base Molecules"
P15	Tengyue He (KAUST, Saudi Arabia) "Structured Metal-Halide Glass Scintillators for X-ray Inspection"
P16	Donggyu Huh "Electric-Field Modulation in DRAM BCATs through Nitrogen Charge Incorporation by Rapid Thermal Nitridation"
P18	Swadhin Kumar Jena (IIT Bhubaneswar, India) "Study of Metallization-Induced Interface Traps and Charge in Al2O3/SiO2/Si MOS Stack Using C–V/G–V Measurements and TCAD Simulations"
P27	Halyna Mykhailova "Effect of Carbon Nanostructure Concentration on the Electrical Conductivity of Cu-Based Composites under Compression"
P29	Anastassiya Pedan (Palacký University Olomouc, Czech Republic) "Fluorescence Lifetime-Based Sensing of Dopamine Using Carbon Dots"
P30	Jolanta Pranckevičienė (Vilnius Gediminas Technical University, Lithuania) "Superplasticizer-Assisted Dispersion of MWCNTs for Tailoring the Hydration and Performance of Cementitious Nanocomposites"
P31	Priyanka "Green-Red Emissive Carbon Dots Interact with Lipidic Membranes: Implications for Staining and Penetrating Cellular Membranes"
P32	Hyungon Pyo (Seoul National University, South Korea) "Demonstration of a Single-Gate Vertical FeTFT for Vertically Integrated Ferroelectric Memory"

WEDNESDAY, 9TH DECEMBER 2026

08.30 - 09.00	REGISTRATION & MORNING COFFEE

Bibliothèque

08.50 - 10.10	Chirality, Ultrafast & Ultrasmall II Chair: Ventsi Valev, Nicola Mayer
08.50 - 09.10	Reiko Oda (CBMN UMR5248, CNRS / Université de Bordeaux (IECB, Pessac)) "TBA"
09.10 - 09.30	Jize Yan (Southampton University) "TBA"
09.30 - 09.50	Davide Faccialà (CNR-IFN) "TBA"
09.50 - 10.10	Ji-Young Kim (Rensselaer Polytechnic Institute) "TBA"
10.10 - 10.30	COFFEE BREAK & NETWORKING
10.30 - 12.10	Nanophotonics I Chair: Kseniia Mamaeva, Pavel Ginzburg
10.30 - 11.00	KEYNOTE TALK - Ventsi Valev "Beyond Intensity: Polarization, Frequency and Time in Nonlinear Chiroptical Scattering"
11.00 - 11.20	Louise Bradley (Trinity College Dublin, Ireland) "Engineering Strong Light–Matter Coupling in Dielectric Metasurfaces"
11.20 - 11.40	Mohsen Rahmani (Nottingham Trent University) "Nonlinear optical imaging via engineered metasurfaces"
11.40 - 11.55	Laurène Tribolet (EPFL – FIMAP, Switzerland) "Surface-Engineered Dewetting as a Scalable Fabrication Platform for Photonic Nanostructures"
11.55 - 12.10	Egor Evlyukhin "Pressure and Counterion Engineering as Dual Routes to Tunable Photophysics in Pyrylium Molecular Hybrids"
12.10 - 13.00	LUNCH
13.00 - 14.00	PLENARY TALK - Trinitat Pradell (Universitat Politècnica de Catalunya (UPC), Barcelona, Spain) "The Chemistry Behind Beauty: Chinese Stoneware Glazes"
14.00 - 15.00	HERMES — Heritage Science I Chair: Giuseppina Padeletti, Maria Pia Casaletto
14.00 - 14.20	Justine Marie Vernet (SDSS – Society for the Documentation of Submerged Sites; IAS – Institute of Marine Research, CNR) "TBA"
14.20 - 14.40	Mariangela Cestelli Guidi "Next-generation light sources for heritage science at INFN: from macro-FTIR mapping to IR and THz synchrotron applications"
14.40 - 15.00	Danilo Dini (University of Rome “La Sapienza”) "Egyptian blue clumps from the ceremonial public district of Pyrgi: a summary of the results of the chemical-physical analyses"
15.00 - 15.20	COFFEE BREAK & NETWORKING
15.20 - 16.35	Optical Systems and Networks Chair: Toms Salgals
15.20 - 15.40	Toms Salgals (Riga Technical University, Latvia, Litvania) "TBA"
15.40 - 16.00	Inga Brice "Rare-Earth Doped Silica Microspheres for Narrow-Linewidth Coherent Light Sources in Visible and Infrared Spectral Ranges"

16.00 - 16.20	Dmytro Vovchuk (Tel Aviv University, Israel) "Optically Transparent Meta-Gratings for Functional Automotive Glazing"
16.20 - 16.35	Rodions Marstupa (Riga Technical University, Latvia) "New FBG-acoustic “radar” for small target detection"

Amphithéâtre Moissan

14.00 - 15.00	Nanomaterials in Biology and Medicine I
14.00 - 14.25	Silvia Giordani "TBA"
14.25 - 14.45	Surbhi Sharma (Johannes Gutenberg University Mainz) "Chirality-Programmed Peptide Condensates: From Phase Separation to Structure and Function"
14.45 - 15.00	Pavel Bezrukov (Tel Aviv University, Israel) "Silver-Vaterite Hybrid Materials for Light-Controlled Reactive Oxygen Species Generation"
15.00 - 15.20	COFFEE BREAK & NETWORKING
15.20 - 16.50	Smart Fibers and Terahertz Photonics — Joint Session Chair: Alexander Gumennik
15.20 - 15.50	KEYNOTE TALK - Fabien Sorin (Ecole Polytechnique Fédérale de Lausanne, France) "TBA"
15.50 - 16.10	Maksim Skorobogatiy (Polytechnique Montréal) "Multi-material microstructured polymer fibers – a versatile platform for applications ranging from terahertz communications and energy storage to industrial design and performing arts"
16.10 - 16.30	Fabio Novelli (University of Southampton) "Hydrogen-Bond Donor-Acceptor Imbalance in Low-Frequency Terahertz Water Spectra"
16.30 - 16.50	Jérôme Tignon (Ècole Normale Superieure, France) "Ultra-broadband, high-field THz pulses at 200 kHz from two-color micro-plasmas driven by a compact Yb laser"

Salle 4

14.00 - 15.00	Innovations in Energy I Chair: Hani Barhom
14.00 - 14.15	Mostafa Shawky Eraky Mohamed (CMRDI, Egypt) "Controlled One-Pot Fluorination and Boron Incorporation in Heteroatom-Doped Graphene for Energy Storage Electrodes"
14.15 - 14.30	Rudzani Sigwadi "Preparation and Characterization of Porous Flower-Like Zirconium Phosphate as an Inorganic Filler for Fuel Cell Electrolytes"
14.30 - 14.45	Tebogo Mashola "CuFeO3-supported IrO2-based anode electrocatalysts for oxygen evolution reaction"
14.45 - 15.00	Abdelkader El Kissani "Copper Antimony Tin Sulfide (Cu2SbSnS4) Thin Films: Synthesis, Structural, and Optoelectronic Properties"
15.00 - 15.20	COFFEE BREAK & NETWORKING
15.20 - 16.50	Materials for Energy, Catalysis, Sensing and Cosmetic Science
15.20 - 15.35	Viktor Filatov "(title to follow)"
15.35 - 15.50	Daba Thiogne Bakhoum (Ca' Foscari University of Venice, Italy) "Mixed-Phase Sn–Ti Photocatalysts for Metronidazole Degradation under Simulated Solar Light Irradiation"
15.50 - 16.05	Rohini B. Shinde (Gachon University, South Korea) "In Situ Chemical Conversion of Isopolyoxovanadate-Pillared Layered Double Hydroxide Hollow Nanotube Thin Films for Efficient Oxygen Evolution"

16.05 - 16.20	Shalini Dubey (Chandigarh University, India) "Multifunctional MOF@2D Material Hybrids for Environmental Pollutant Sensing and Adsorptive Remediation in Water"
16.20 - 16.35	Mansoor Alruqi "Waste To Hydrogen: Application Of Explainable Artificial Intelligence for Enhanced Understanding Of Waste Biomass Gasification For Hydrogen Production"
16.35 - 16.50	Maxwell Thatyana "Synthesis of Ni@MIL-53(Fe) MOFs for their adsorptive removal of Pb(II) and Cr(III) ions in water"

17.00 - 19.00	**WINE RECEPTION & POSTER SESSION (Galerie)**

POSTER SESSION 2 — Galerie

17.00 - 19.00	WINE RECEPTION & POSTER SESSION 2 (Wednesday 9 December)
P9	Valeriia Buzova (SkyLab AG) "Targeted Enzymatic Removal of Melanoidin- and Phenolic-Based Stains Using a pH-Stable Fungal Laccase"
P12	Serra Ersoy "Development of 3D Stamped Micro-supercapacitor Devices from Sol-Gel Based Ti/Zr-Containing Multicomponent Ceramic Nanocomposites"
P13	Wejden Gazehi (ENIT, University of Tunis El Manar / ISTIC, University of Carthage, Tunisia) "Hybrid Ensemble Enhancement of Variational Quantum Classifiers for Nanocomposite Property Classification"
P14	Taniya Gupta "Interfacial Engineering of ZIF-67/Ti3C2Tx MXene and Redox-Additive Electrolytes for Symmetric Supercapacitors"
P17	Juyoung Huh (Sungkyunkwan University; Samsung Electronics Co., Ltd.) "Inorganic Metal-Oxide Photoresist for Unified Patterning of Heterogeneous Features in Advanced DRAM"
P19	Tejinder Kaur (University Institute of Pharma Sciences, Chandigarh University) "Nitrogen Heterocycles: Rising Stars in Cancer Drug Discovery"
P20	SungEun Kim (Seoul National University, South Korea) "Influence of Defect-Induced Conductivity in ZnO Channel on the Memory Window of Ferroelectric Thin Film Transistors"
P21	Prakash Kumar "Defect Engineered Ni MOF on NSP Doped Biomass Derived Carbon for Ultrasensitive Hydrogen Peroxide Sensing"
P22	Narender Kumar "Critical Metal Recovery from E Waste Batteries via Microbial Bioleaching and Bioprecipitation"
P23	Priyanka Kumari (IIT Bhubaneswar, India) "Next-Generation Ultrafast Self-Powered Broadband Photodetector for Optical Communication"
P24	Bhawana Mehra "TBA"
P25	Ankitha Menon (IIT Palakkad, India) "L-Arginine Functionalized Mildly Etched Nb2CTx MXene for Dual Nucleotide Detection"
P26	Niloy Mridha "A Multifunctional MWCNTs-Reinforced Chitosan–Gelatin Conducting Hydrogel for Triboelectric Nanogenerator and Artificial Opto-electronic Synapse Applications"
P28	Prashant Nandlal (Parul University) "TBA"
P33	Zouaoui SETIFI (Université 20 Août 1955-Skikda) "A rare example of a double metamagnetic transition leading to 2D and 3D long-range order in a 2D metal-organic complex"
P34	Hajer Tlili (CNRSM) "Innovative Nanomaterial-Based Strategies for Water Pollution"
P35	Min Sub Um (Seoul National University, South Korea) "Evaluation of Amorphous InGaZnO-Based One Transistor-One Capacitor Memory Cell via Fast Current-Voltage Measurements Method and Improvements"
P36	Vecihe Elif İmamoğlu (Department of Metallurgical and Materials Engineering, Faculty of Chemical and Metallurgical Engineering, Yıldız Technical University, Istanbul, Türkiye) "Precipitation-Assisted Synthesis of Phase-Pure Tungsten Boride for Electrochemical Water Splitting"

THURSDAY, 10TH DECEMBER 2026

08.30 - 08.50	REGISTRATION & MORNING COFFEE

Bibliothèque

08.50 - 10.45	Smart, Functional Fibers and Textiles II Chair: Alexander Gumennik
08.50 - 09.10	Roy Kishony (Technion - Israel Institute of Technology) "FIBER: From Infection Biology to Evolution Research"
09.10 - 09.30	Peter Mosley (University of Bath) "Design and fabrication of silica photonic crystal fibres for narrowband heralded single photon generation"
09.30 - 09.50	Michael Fokine "TBA"
09.50 - 10.10	Yuanyuan Guo, Etienne Le Bourdonnec (Tohoku University, Japan) "Development of a Magnetic µCoil Fiber for Minimally Invasive Neuromodulation"
10.10 - 10.30	Sylvain Danto (University of Bordeaux, France) "TBA"
10.30 - 10.45	Hamilton Osoy (International Fabric Machines (IFM)) "Development of a Stretchable Coiled-Wire Architecture for Computer Fibers"
10.45 - 11.05	COFFEE BREAK & NETWORKING
11.05 - 13.10	Smart, Functional Fibers and Textiles III Chair: Alexander Gumennik
11.05 - 11.20	Burak Temelkuran (Imperial College London, UK) "TBA"
11.20 - 11.35	Daosheng Deng (Fudan University) "TBA"
11.35 - 11.50	Nicolas Joly (Friedrich Alexander University | Max Planck Institute for the Science of Light, Germany) "Suppressing Guided Acoustic-Wave Brillouin Scattering for a low-noise transmission channel in twisted microstructured fibers"
11.50 - 12.05	Mehmet Bayindir (Universität Hamburg and King Abdullah University of Science and Technology (KAUST)) "Nanocluster glass composite fiber arrays for low-dose X-ray imaging"
12.05 - 12.20	Kristina Rusimova "TBA"
12.20 - 12.35	Stephanos Yerolatsitis (University of Bath) "TBA"
12.35 - 12.55	Noel Healy (Newcastle University) "Functional Perovskite Optical Fibres"
12.55 - 13.10	Tural Khudiyev (National University of Singapore) "Phase Change Fibers for Cooling Textiles"
13.10 - 14.00	LUNCH
14.00 - 15.30	HERMES — Heritage Science II Chair: Giuseppina Padeletti, Maria Pia Casaletto
14.00 - 14.30	KEYNOTE TALK - Ortwin Hess (Trinity College, Dublin, Ireland) "TBA"
14.30 - 14.50	David Citrin (Georgia Institute of Technology) "TBA"
14.50 - 15.10	Giuseppina Padeletti "TBA"
15.10 - 15.30	Maria Pia Casaletto (CNR, Istituto per lo Studio dei Materiali Nanostrutturati, Italy) "A scientific route bridging Corrosion, Materials and Heritage Sciences"

15.30 - 15.50	COFFEE BREAK & NETWORKING
15.50 - 16.50	HERMES — Heritage Science III Chair: Giuseppina Padeletti, Maria Pia Casaletto
15.50 - 16.20	KEYNOTE TALK - Daniel Caurant (CNRS / Chimie ParisTech) "Removing lead from glazes for jewelry and porcelain decoration: Toward healthier products for today and for the cultural heritage of the future"
16.20 - 16.50	KEYNOTE TALK - Gilles Wallez (Chimie ParisTech) "Inorganic pigments: when beauty lies in defects"

Amphithéâtre Chaudron

14.00 - 15.20	Chirality, Ultrafast & Ultrasmall III Chair: Ventsi Valev, Nicola Mayer
14.00 - 14.20	Stefan Rotter (TU Wien) "Controlling the flow of information in optical metrology"
14.20 - 14.40	Peter Hommelhoff (Friedrich-Alexander-Universität Erlangen-Nürnberg) "TBA"
14.40 - 15.00	Said Ergoktas (University of Bath) "Topological control of light"
15.00 - 15.20	Ebrahim Karimi (Chapman University) "TBA"
15.30 - 15.50	COFFEE BREAK & NETWORKING
15.50 - 17.00	Nanophotonics II Chair: Kseniia Mamaeva, Pavel Ginzburg
15.50 - 16.10	Jonas Johansson (Lund University) "Nucleation modeling for semiconductor nanostructures"
16.10 - 16.30	Kseniia Mamaeva (Trinity College Dublin) "TBA"
16.30 - 16.45	Ziad Abi Akar (UTT — L2n, CNRS UMR 7076, Troyes, France) "Room Temperature Memristive Behavior in Nitrogen Vacancies in Diamond"
16.45 - 17.00	Anjali Sharma (NIT Trichy) "Polarons and Pauli-blocking enhanced saturable absorption in MoS2 nanorod/PANI nanocomposite films"

Amphithéâtre Friedel

14.00 - 15.30	Smart, Functional Fibers and Textiles IV Chair: Alexander Gumennik
14.00 - 14.30	KEYNOTE TALK - Shandon Hart (Corning) "Durable Optical Coatings and Composite Microstructured Fibers"
14.30 - 15.00	KEYNOTE TALK - Gang Chen (Massachusetts Institute of Technology) "Thermal Transport in Fibers and Fabrics"
15.00 - 15.15	Xiaoting Jia (Virginia Tech) "TBA"
15.15 - 15.30	Noam Fink (Shenkar School of Design) "TBA"
15.30 - 15.50	COFFEE BREAK & NETWORKING
15.50 - 16.45	Smart, Functional Fibers and Textiles V Chair: Alexander Gumennik
15.50 - 16.10	Alexander Gumennik (Indiana University, FAMES Lab) "TBA"
16.10 - 16.30	Katia Zolotovsky (Northeastern University) "Biohybrid Textile Fibers with Encapsulated Microbial Biosensors"

16.30 - 16.45	Yan Meng (Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland) "Fiber Thermal Drawing for Scalable Fabrication of Nanowire Arrays"
17.00 - 18.00	PLENARY TALK - Yoel Fink (Massachusetts Institute of Technology, USA) "TBA"

Salle 4

14.00 - 15.30	Nanomaterials in Biology and Medicine II
14.00 - 14.15	Rafaela Queiroz (Federal University of São Paulo, Brazil) "Nanodiamond–Porphyrin Conjugates as Photosensitizing Platforms for Photodynamic Therapy"
14.15 - 14.30	Isabelle Freitas de Paiva (São Paulo State University (UNESP), Brazil) "Thermoresponsive Chlorin e6-Loaded Nanoemulsion-Based Hydrogel for Photodynamic Therapy in Melanoma Cancer: Physicochemical and Rheological Characterization"
14.30 - 14.45	Hugo de Campos Braga (Federal University of São Paulo, Brazil) "Conjugation of Iron–Phenanthroline Complexes to Silver Nanoparticles For Application In Photodynamic Therapy of Cancer"
14.45 - 15.00	Narender Kumar "Critical Metal Recovery from E-Waste Batteries via Microbial Bioleaching and Bioprecipitation"
15.00 - 15.15	Dayane Batista Tada (Federal University of São Paulo, Brazil) "Kinetics release, cytotoxicity and biodistribution of Pectin Nanoparticles"
15.15 - 15.30	Mayssa Hachem (Khalifa University of Science and Technology) "Sustainable Microalgae-based Docosahexaenoic Acid–Silver Nanoparticles for Biomedical applications"
15.45 - 17.00	Innovations in Energy II Chair: Hani Barhom
15.45 - 16.00	Serkan Kılıçtek (Yıldız Technical University) "Electrochemical Characterization of Tungsten Boride (WB/W2B) Powders for Supercapacitor Electrodes Performance"
16.00 - 16.15	Hamza Fiaz (Khalifa University, UAE) "Hierarchical Atomistic Screening of Novel Li–Na–Ge–Mo Sulphide/Oxide Solid-State Electrolytes for High-Performance All-Solid-State Batteries"
16.15 - 16.30	Iman Ghasemi Ardali "Moisture-Driven Barium Instability in Cobaltite Perovskite Air Electrodes for Proton-Conducting Ceramic Cells"
16.30 - 16.45	Noureddine Lebrini "Effect of Cu Doping on NiS2 Thin Films for Supercapacitor Applications"
16.45 - 17.00	Vladimír Zeleňák "Porphyrinate and Triptycene-Based MOFs for Carbon Dioxide Sorption"

19.00	**GALA DINNER**

FRIDAY, 11TH DECEMBER 2026

08.30 - 09.00	REGISTRATION & MORNING COFFEE

Bibliothèque

10.20 - 11.20	Q-MADE: Quantum Materials and Device Engineering II Chair: Neha Kondal
10.20 - 10.35	Swapnil Deshpande "Impact of External Strain on Rashba Splitting, Spin Texture and Carrier Recombination in 2D Monolayer of Pb3Se2Br2"
10.35 - 10.50	Kirtanjot Kaur "MOF@MXene Hybrid Nanoplatforms for Smart Environmental Sensing and Remediation of Toxic Metal Ions"
10.50 - 11.05	Nirbhay Singh (Department of Applied Physics, Amity School of Engineering & Technology, Amity University Madhya Pradesh, Gwalior, Pin-474005, India) "Copper Iron Disulfide Based Supercapacitors for Sustainable Energy Storage: A Combined Experimental and Theoretical Investigation with Device Demonstration"
11.05 - 11.20	Kripesh Kambikkathu Veettil "Tailoring the Optoelectronic and Thermal Properties of Ge Core Si3N4/Al Shell Quantum Dots in an Alumina Matrix"
11.20 - 12.20	PLENARY TALK - Ortwin Hess and Alina Karabchevsky (Trinity College, Dublin, Ireland) "From Metamaterials to Intelligent Matter: Can Light–Matter Interactions Create Memory and Learning?"
12.20 - 13.00	LUNCH
13.00 - 14.35	HERMES — Heritage Science IV Chair: Giuseppina Padeletti, Maria Pia Casaletto
13.00 - 13.20	Luca Tortora (Roma Tre University, INFN, Italy) "TBA"
13.20 - 13.40	Daniele Chiriu (University of Cagliari, Italy) "TBA"
13.40 - 14.00	Gabriella Di Carlo (CNR — Institute for the Study of Nanostructured Materials (ISMN)) "Sustainable Protective Systems for Metal Heritage: Design and Real-World Applications"
14.00 - 14.20	João Pedro Veiga (NOVA University Lisbon) "(title to follow)"
14.20 - 14.35	Abdellatif Afandy (King Saud University, Saudi Arabia) "More Experimental Results of Papyrus Physical Properties"
14.35 - 14.55	COFFEE BREAK & NETWORKING
14.55 - 16.55	Chirality, Ultrafast & Ultrasmall IV Chair: Ventsi Valev, Nicola Mayer
14.55 - 15.15	Robert Cameron (University of Strathclyde) "TBA"
15.15 - 15.35	Gil Markovich (Tel Aviv University) "Symmetry Breaking in Colloidal Plasmonic Nanostructures by Circularly Polarized Light Illumination"
15.35 - 15.55	Nicola Mayer (Kings College London) "Instantaneous and subcycle chirality in strong-field ionization"
15.55 - 16.15	Emilio Pisanty "Extreme nonlinear optical chirality"
16.15 - 16.35	Tal Ellenbogen (Tel Aviv University) "Frequency conversion in artificial chiral nonlinear photonic structures"
16.35 - 16.55	Hamed Merdji (Ecole Polytechnique) "TBA"
17.10 - 17.40	CLOSING CEREMONY & BEST PRESENTATION AWARDS

Amphithéâtre Moissan

13.00 - 14.00	Nanophotonics III Chair: Kseniia Mamaeva, Pavel Ginzburg
13.00 - 13.20	Ilya Goykhman (The Hebrew University of Jerusalem, Israel) "2D integrated hybrid broadband photodetectors"
13.20 - 13.40	Alex Hayat "Hybrid Superconductor-Semiconductor Optoelectronics"
13.40 - 14.00	Pavel Ginzburg (Tel Aviv University, Israel) "TBA"
14.35 - 14.55	**COFFEE BREAK & NETWORKING**
14.55 - 16.20	Innovations in Energy III Chair: Hani Barhom
14.55 - 15.15	Hani Barhom (Tel Aviv University, Israel) "TBA"
15.15 - 15.35	Gilbert Daniel Nessim "Materials and Processes for Electrocatalytic Conversion of Glycerol to Higher Value Compounds"
15.35 - 15.50	Subin Kaladi Chondath "In-situ Engineered Transition-Metal Chalcogenides and Composite Electrodes for High-Performance Asymmetric Supercapacitors"
15.50 - 16.05	Naiara L. Marana (Department of Chemistry, University of Turin, Italy) "Defect Engineering and Fe Functionalization of MoS_2/Au Moiré: Insights into Surface Bonding and HER-Relevant Active Sites"
16.05 - 16.20	Buket Yılmaz (Istanbul Technical University, Turkey) "Effect of Precursor Chemistry on Phase Evolution and Morphology of Sol-Gel-Derived B4C/BN Composite Powders for Supercapacitor Applications"

18.00 & 19.00	**NIGHT AT THE LOUVRE — guided tours**