Sunday (05/07/2026)

Social event

	Time	Title	Speaker	Topic
	16:30–21:30	Welcome Desk		
	17:00–19:00	Pedestrian guided tour		
	23:00–23:30	Sound and light show on the cathedral		

Monday (06/07/2026)

Droplets & Multiphase flows
Nanoparticles & droplets
Social event
Mie scattering & physical models
Guest Speaker
Aerosols
Ceremony

	Time	Title	Speaker	Topic
	09:00–09:15	Opening ceremony	M. Boukhlafa / A. Cessou	Ceremony
	09:15–09:55	Light Scattering by Non-spherical and Inhomogeneous Particles: Advances in Computational Methods and Their Applications in Atmospheric Radiation and Remote Sensing	Bi L.	Guest Speaker
	09:55–10:15	Dependence of light backscattering on aerosol size and complex refractive index: laboratory experiments on mineral dust, soots and bioaerosols	Miffre A.	Aerosols
	10:15–10:35	Coherent backscatter enhancement of ice cloud crystals: applications to lidar remote sensing	Zhou C.	Aerosols
	10:35–10:55	Coffee break		
	10:55–11:15	Modeling Light Scattering from Crumpled Few-Layer Graphene: A Comparison of Crumpling Approaches	Yazici H.I.	Nanoparticles & droplets
	11:15–11:35	Non-photochemical laser-induced crystallization in solution: the elusive role of nanoparticles	Dupray V.	Nanoparticles & droplets
	11:35–11:55	Limitations of plenoptic imaging for 3D spray shadowgraphy	Marszalek A.	Nanoparticles & droplets
	11:55–12:15	Rainbow scattering from the near to far-field : application to microfluidic systems	Onofri F.R.	Nanoparticles & droplets
	12:15–12:35	Reciprocal effects of the internal field and absorption in water droplets containing black carbon aggregates	Cremonesi L.	Nanoparticles & droplets
	12:35–14:00	Lunch		
	14:00–14:40	Imaging aerosol particles with digital holography	Berg M.	Guest Speaker
	14:40–15:00	Holographic reconstruction tailored to spheres	Chabrol L.	Mie scattering & physical models
	15:00–15:20	Mie scattering with partially coherent and partially polarized light	Visser T.	Mie scattering & physical models
	15:20–15:40	Validity range of the Airy function-based rainbow theories	Ren K.F.	Mie scattering & physical models
	15:40–16:00	Coffee break		

	Time	Title	Speaker	Topic
	16:00–16:20	Single-shot 3D shape reconstruction of nonspherical drops and bubbles from light scattering patterns using deep learning	Duan Q.	Droplets & Multiphase flows
	16:20–16:40	Speckle Image–Based Recognition of Suspensions in Single Levitating Microdroplets Using Convolutional Neural Networks	Jakubczyk D.	Droplets & Multiphase flows
	16:40–17:00	Contribution of the near- and far-field for droplets refractive index measurement with digital in-line holography	Bresson P.	Droplets & Multiphase flows
	17:00–17:20	Modelling interferometric particle imaging of small sizes ice crystals using the discrete dipole approximation	Brunel M.	Droplets & Multiphase flows
	17:20–17:40	Convolutional neural network to reconstruct the shape of irregular rough prticles described by gielis' superformula from their interferometric images	Abad A.	Droplets & Multiphase flows
	17:40–18:00	Digital in-line-holographic and the photonic jet method for particle optical absorption measurement	Petitjean A.	Droplets & Multiphase flows
	19:00–20:30	Reception at Rouen City Hall		

Tuesday (07/07/2026)

- Particle characterization methods II
- Particle characterization methods I
- Social event
- Meeting
- Beam shapes & trapping
- Soot characterization and radiative properties
- Soot characterization & radiative properties
- LII Discussion Session
- Spectral methods & nanoparticles
- Beam shapes, propagation & light scattering
- Guest Speaker

	Time	Title	Speaker	Topic
	09:00–09:40	Evaluation of the beam shape coefficients based on a scalar description: a comparison in remodeling effects	Shen J.	Guest Speaker
	09:40–10:00	The DADI model: Calculating optical properties of soot nanoparticles at the atomistic scale for forward and inverse optical diagnostics	Brosseau-Habert N.	Beam shapes, propagation & light scattering
	10:00–10:20	From Diffusion to Anderson Localization of Light in a Disordered Three-Dimensional Dielectric Medium	Grynko Y.	Beam shapes, propagation & light scattering
	10:20–10:40	Propagation Characteristics of Bessel-Gaussian Beams in Coupled Atmospheric Turbulence and Smoke Environments	Cheng M.	Beam shapes, propagation & light scattering
	10:40–11:00	Coffee break		
	11:00–11:20	On the interference of the scattered and incident waves in Gaussian beam scattering problems	Gienger J.	Beam shapes & trapping
	11:20–11:40	Optical trapping for single-particle studies	Wang C.	Beam shapes & trapping
	11:40–12:00	Relationships between electromagnetic (EM) and acoustical scattering : The state of the art	Gouesbet G.	Beam shapes & trapping
	12:00–12:20	Micro- and Nano-Spinners	Nieminen T.	Beam shapes & trapping
	12:20–12:40	2-Dimensional discrete acoustic frozen waves	Briard P.	Beam shapes & trapping
	11:00–11:20	Investigation of absorption properties of heteroaggregates using uv-vis absorption spectroscopy and a novel broadband nephelometer	Will S.	Spectral methods & nanoparticles
	11:20–11:40	In situ discrimination of liquid and solid iron-oxide nanoparticles in plasma synthesis by absorption spectroscopy	Elashry M.	Spectral methods & nanoparticles
	11:40–12:00	A polychromatic countable basis for free electromagnetic fields	Fernandez-Corbaton I.	Spectral methods & nanoparticles
	12:00–12:20	Particle Concentration Measurement in a Supersonic Underexpanded Jet via Light Extinction Spectroscopy	Sanapo C.	Spectral methods & nanoparticles

	Time	Title	Speaker	Topic
	12:20–12:40	Design and calibaration of the optical sensor for interstellar dust detection onboard the tianwen-2 mission	Wang J.	Spectral methods & nanoparticles
	12:40–14:00	Lunch		
	14:00–14:20	Decoupling size and shape effects in nanoplastic through light scattering	Andrini M.	Particle characterization methods I
	14:20–14:40	A Physics-Informed Approach for Dynamic RCS Prediction of Rescue Vessels	Li D.	Particle characterization methods I
	14:40–15:00	Multiband Channel Measurements and Characterization for Campus Microcell Scenarios	Fan H.	Particle characterization methods I
	15:00–15:20	USRP-Based Channel Measurements and Characterization at 2 and 5.9 GHz in an Office Corridor Environment	Liu Z.	Particle characterization methods I
	15:20–15:40	Model-based scattering center extraction method using shooting and bouncing ray	Wu D.	Particle characterization methods I
	14:00–14:20	Experimental invetigation of angular light scattering by coated soot particles	Moallemi A.	Soot characterization and radiative properties
	14:20–14:40	On the evaluation of LIDAR parameters for aeronautical soot particles	Raynaud D.Y.	Soot characterization and radiative properties
	14:40–15:00	Axial and radial evolution of soot size parameters in ethylene/air laminar coflow diffusion flames with hydrogen and ammonia substitution	Serrano-Bayona R.	Soot characterization and radiative properties
	15:00–15:20	Complex refractive index of fractal soot: a simulation chamber study	Di Biagio C.	Soot characterization and radiative properties
	15:20–15:40	Experimental determination of the radiative power emitted by a laminar diffusion flame by considering the soot optical index spatial and spectral variations	Yon J.	Soot characterization and radiative properties
	15:40–16:00	Coffee break		
	16:00–16:20	Topological Semantic Coding for robust OAM visual telemetry in turbulence	Cheng M.	Particle characterization methods II
	16:20–16:40	Yolo-based deep learning for two-dimensional particle streak velocimetry	Dong X.	Particle characterization methods II
	16:40–17:00	Exo-planetary atmosphere particle models with the Transition Matrix formalism	La Mura G.	Particle characterization methods II
	17:00–17:20	Influence of Surface Roughness on Optical Properties of Irregular Hexahedral Particles	Oppermann T.	Particle characterization methods II
	17:20–17:40	Drop Size, Position and Temperature Measurement using Defocused Phosphorescent Imaging	Zhou W.	Particle characterization methods II

	Time	Title	Speaker	Topic
	17:40–18:00	On Ultraviolet type-C Light Irradiation in Airborne and Dispersed Droplets on Surfaces	Dbouk T.	Particle characterization methods II
	18:00–19:00	Meeting LII, ELS and LIP scientific and advisory boards	—	Meeting
	16:00–16:20	Investigation of the optical properties of soot in aviation fuels	Migliorini F.	Soot characterization & radiative properties
	16:20–16:40	Physics-Based Inference of Soot Properties from Time-Resolved Laser-Induced Incandescence	Escudero F.	Soot characterization & radiative properties
	16:40–17:00	4D-Investigation of Soot Formation in Turbulent Flames Using Tomographic High-Speed Laser-Induced Incandescence and Two-Color Pyrometry	Huber F.J.T.	Soot characterization & radiative properties
	17:00–18:00	LII on other particles than soot	—	LII Discussion Session

Wednesday (08/07/2026)

Social event
Guest Speaker
Ceremony
Meeting

	Time	Title	Speaker	Topic
	09:00–11:00	Meeting point, departure by bus		
	11:00–13:50	Tour of the Normandy coast		
	12:30–13:10	Lunch		
	13:50–14:45	Meeting point, departure by bus		
	14:45–15:30	Absorption properties and the mechanism of laser-induced graphitization of carbonaceous nanoparticles	F. Liu	Guest Speaker
	15:30–16:15	A Universal Description of Light Scattering by Particles of all Sizes, Shapes and Refractive Indices	Sorensen C.	Guest Speaker
	16:15–17:00	Improving the position of women in research in our field	—	Meeting
	17:00–19:00	Tour of the old factory		
	19:00–19:10	LIP history and future	G. Gousebet	Ceremony
	19:10–19:25	Waterman and Goody Awards prizes	—	Ceremony
	19:25–21:00	Conference Dinner		
	21:00–22:30	Meeting point, return by bus		

Thursday (09/07/2026)

- Numerical methods
- Light scattering and inversion
- SP2 and ex-situ LII
- LII : miscellaneous
- Social event
- LII Discussion Session
- Particle light scattering, emission & detection
- Force, torque, optical tweezers
- Poster session

	Time	Title	Speaker	Topic
	09:00–09:20	Not found	Not F.	Particle light scattering, emission & detection
	09:20–09:40	Not found	Not F.	Particle light scattering, emission & detection
	09:40–10:00	Polarization from a single helical particle: absorption effects	Surkov Y.	Particle light scattering, emission & detection
	10:00–10:20	Explaining secondary temporal features of atomic emissions in phase-selective libs of nanoparticles	Menser J.	Particle light scattering, emission & detection
	10:20–10:40	Development of an ice cloud optical property model for passive and active sensor-based remote sensing applications	Coy J.	Particle light scattering, emission & detection
	10:40–11:00	Coffee break		
	11:00–11:20	Applicability limits of the geometric optics approximation	Yalçın R.A.	Light scattering and inversion
	11:20–11:40	On the validity of the arago-biot mixing formula for finite-size particle suspensions: limits on particle volume density	Garcia-Valenzuela A.	Light scattering and inversion
	11:40–12:00	Seeking the overall size of a particle from the first Mueller matrix component	Malaval F.	Light scattering and inversion
	12:00–12:20	Scattering of polarization-entangled photons in an optically soft matter	Lopushenko I.	Light scattering and inversion
	12:20–12:40	Spatial dispersion in optical properties of layers of plasmonic nanoparticles	Bortchagovsky E.	Light scattering and inversion
	11:00–11:20	Extracting maximum information from single scattering soot photometers	Konemann T.	SP2 and ex-situ LII
	11:20–11:40	Traceable Automated Calibration of Laser Induced Incandescence Based Black Carbon Mass Analysers	Symonds J.	SP2 and ex-situ LII
	11:40–12:40	Modeling, data analysis, and uncertainty quantification	—	LII Discussion Session
	12:40–14:00	Lunch		

	Time	Title	Speaker	Topic
	14:00–14:20	Efficient light-scattering computational capability for large and extreme spheroids: The Separation of Variables and T-matrix Method (SV-TM)	Yang P.	Numerical methods
	14:20–14:40	Accelerating refractive-index sweeps in the discrete dipole approximation using shifted Krylov subspace method	Argentin C.	Numerical methods
	14:40–15:00	Implementation of the weighted discretization in the ADDA code	Bouillon P.	Numerical methods
	15:00–15:20	Light scattering by huge cubes: Discrete Dipole Approximation versus physical optics	Yurkin M.	Numerical methods
	15:20–15:40	Study on lateral far-field scattering depolarization of non-spherical nanoparticles based on the finite-difference time-domain method	Cai T.	Numerical methods
	15:40–16:00	Numerical Examination of “Large-Scale” Organization of Phase Matrix Element Structure in Some Smooth Particle Cases	Panetta R.L.	Numerical methods
	14:00–14:20	Investigation of soot evolution in n-heptane laminar flames at elevated pressures by laser-induced incandescence	Wu Y.	LII : miscellaneous
	14:20–14:40	Investigation of impact of steam addition on particle formation in an RQL combustor at high pressure using laser-induced incandescence and relation to other diagnostics	Geigle K.P.	LII : miscellaneous
	14:40–15:00	Laser-Induced Incandescence of Char Particles	Sipkens T.	LII : miscellaneous
	15:00–15:20	Is laser-induced incandescence really a non-intrusive diagnostic for the study of flame-synthesized TiO2 nanoparticles?	Franzelli B.	LII : miscellaneous
	15:20–15:40	Self-calibrated in situ LII imaging of soot volume fraction and primary particle size in a gas turbine exhaust	Burns I.	LII : miscellaneous
	15:40–16:00	Assessing probe volume temperatures under the influence of polydispersity and nonuniform laser fluences during time-resolved laser-induced incandescence measurements of iron nanoparticles	Robinson-Enebeli S.	LII : miscellaneous
	16:00–16:20	Coffee break		
	18:30–20:30	Poster session		
	16:20–16:40	Trapping Nanoparticles with Optical Tweezers	Nieminen T.	Force, torque, optical tweezers
	16:40–17:00	Optical levitation in focused beams with spatial and polarization ellipticity: towards controllable coupled non-Hermitian oscillators	Zemankova T.	Force, torque, optical tweezers
	17:00–17:20	Optical Nonlinearity-Assisted Trapping of Hollow-core Microparticles under Femtosecond Pulsed Excitation	Alim A.	Force, torque, optical tweezers
	16:20–17:20	Combined techniques	—	LII Discussion Session

Poster session – Posters & presenters

A self-calibrating photothermal interferometer with supercontinuum light source for high-resolution spectral aerosol light absorption measurements Moallemi A.	Application of Laser Induced Incandescence to study soot in rocket-engine flames Fdida N.
Applications of intensified scmos cameras Balogun F.	Broadband cavity-enhanced absorption spectroscopy for in situ optical characterization of flame-borne nanoparticles Petliarsky M.
Combined measurement of light extinction and scattering by aerosols at multiple wavelengths in a multipass-cavity Peruyero L.	Comparative analysis of drying kinetics in single biopolymer droplets at high humidity: measuring evaporation rates through Mie scattering Valenzuela G.A.
Comparing hologram-processing methods for droplet size and real refractive index characterization across complementary experimental configurations Bresson P.	Expression Predicting Light Absorption Along the Continuum of Carbonaceous Particles Sipkens T.
Laser-induced breakdown spectroscopy analysis on particle-loaded filters De Iuliis S. / Arzuffi L.	Modeling the Optical Influence of Mineral Dust Encapsulation on Black Carbon Cores: A Comparative Study using Mie Theory and T-Matrix Simulations Sanchez C.V.
Optical Determination of Hygroscopicity in Single Biopolymer Aerosol Droplets via Mie Scattering and Köhler Theory Sánchez J.G.	Optical signatures of early-stage sintering in rutile TiO2 nanoparticle dimers from all-atom molecular dynamics simulations Gallardo J.
Polarized light scattering by wildfire smoke from canadian wildfire events Rocha L.A.	Radiative characterization of a felt of fibers whose diameters are of the order of the thermal radiation wavelength Souveton M.
Study of the influence of collisions on the suspending of dense particle deposits Abad A.	Theoretical investigation of longitudinal optical forces in the dipole regime with continuous Frozen Waves Lorete S.G.
Three-dimensional rainbow refractometry Lin Z.	Whispering-gallery mode mediated photoluminescence in quantum dot superparticles: theory and simulation Geints Y.
Probing Flame-Synthesized Oxide Nanoparticles with Laser-Induced Incandescence : Insights on CEO_2 and TIO_2 De Iuliis S.	

Friday (10/07/2026)

Miscellaneous
Guest Speaker
Nanoparticle characterization
Ceremony
Social event

	Time	Title	Speaker	Topic
	09:00–09:40	Inferring thermodynamic quantities from time-resolved Laser-Induced Incandescence measurements on nanoparticles	Daun K.	Guest Speaker
	09:40–10:00	Two separated pulses with two-dimensional two-color Laser-induced incandescence for multi-parameter characterization of soot particles in flame	Cheng X.	Nanoparticle characterization
	10:00–10:20	LIP-calibration, optimization, and quantitative evaluation of polarized imaging dynamic light scattering systems	Cai T.	Nanoparticle characterization
	10:20–10:40	Scattering properties of fractal-like clusters: application to smoke particles	Berdina L.	Nanoparticle characterization
	10:40–11:00	Coffee break		
	11:00–11:20	Sobol Sensitivity Analysis for High Uncertainty Parameters in a Laser-Induced Incandescence (LII) Model	Stefanidis E.	Miscellaneous
	11:20–11:40	How microwave experiments can give information about light interaction with particles	Geffrin J.	Miscellaneous
	11:40–12:00	Sensitivity of airborne and satellite-borne infrared polarimetry to the type, shape, and orientation of atmospheric suspended particles	Xu F.	Miscellaneous
	12:00–12:20	Total Internal Reflection Microscopy (TIRM) for particle distance and orientation detection	Wriedt T.	Miscellaneous
	12:20–12:30	Closing ceremony	G. Gouesbet / J. Yon	Ceremony
	12:30–13:50	Lunch		
	14:15–15:45	Meeting point, for the visit of CORIA laboratory		