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	**Fabrication, characterization, and biomedical application of gold and hybrid plasmonic nanoparticles**	N. Khlebtsov	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	**On Ultraviolet type-C Light Irradiation in Airborne and Dispersed Droplets on Surfaces**	Dbouk T. / Yurkin M.A.	Nanoparticles & droplets
	12:35–14:00	**Lunch**		
	14:00–14:40	**Imaging Aerosol Particles with Digital Holography**	M. Berg	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**		
	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

	Time	Title	Speaker	Topic
	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
- LII Discussion Session
- Beam shapes & trapping
- Soot characterization and radiative properties
- Soot characterization & radiative properties
- Meeting
- 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
	11:00–11:20	**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	**Optical trapping for single-particle studies**	Wang C. et al.	Beam shapes & trapping
	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	**Relationships between electromagnetic (EM) and acoustical scattering : The state of the art**	Gouesbet G.	Beam shapes & trapping
	11:40–12:00	**A polychromatic countable basis for free electromagnetic fields**	Fernandez-Corbaton I.	Spectral methods & nanoparticles
	12:00–12:20	**Micro- and Nano-Spinners**	Nieminen T.	Beam shapes & trapping
	12:00–12:20	**Particle Concentration Measurement in a Supersonic Underexpanded Jet via Light Extinction Spectroscopy**	Sanapo C.	Spectral methods & nanoparticles
	12:20–12:40	**2-Dimensional discrete acoustic frozen waves**	Briard P.	Beam shapes & trapping

	Time	Title	Speaker	Topic
	12:20–12:40	**Design and calibaration of the optical sensor for interstellar dust detection onboard the tianwen-2 mission**	Jiajie W.	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
	14:00–14:20	**Experimental invetigation of angular light scattering by coated soot particles**	Moallemi A.	Soot characterization and radiative properties
	14:20–14:40	**A Physics-Informed Approach for Dynamic RCS Prediction of Rescue Vessels**	Li D.	Particle characterization methods I
	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	**Multiband Channel Measurements and Characterization for Campus Microcell Scenarios**	Fan H. / Liu Z.	Particle characterization methods I
	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. et al.	Soot characterization and radiative properties
	15:00–15:20	**USRP-Based Channel Measurements and Characterization at 2 and 5.9 GHz in an Office Corridor Environment**	Liu Z. / Fan H.	Particle characterization methods I
	15:00–15:20	**Complex refractive index of fractal soot: a simulation chamber study**	Di B.C.	Soot characterization and radiative properties
	15:20–15:40	**Model-based scattering center extraction method using shooting and bouncing ray**	Wu D.	Particle characterization methods I
	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
	16:00–16:20	**Investigation of the optical properties of soot in aviation fuels**	Migliorini F.	Soot characterization & radiative properties
	16:20–16:40	**Yolo-based deep learning for two-dimensional particle streak velocimetry**	Xiangrui D.	Particle characterization methods II
	16:20–16:40	**Physics-Based Inference of Soot Properties from Time-Resolved Laser-Induced Incandescence**	Escudero F.	Soot characterization & radiative properties

	Time	Title	Speaker	Topic
	16:40–17:00	**Aerosol Scattering Phase Function and Polarized Phase Function Retrieval Based on Multiangle Polarimetric Observations**	Ding J.	Particle characterization methods II
	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
	17:00–17:20	**Exo-planetary atmosphere particle models with the Transition Matrix formalism**	La M.G.	Particle characterization methods II
	17:00–18:00	**LII on other particles than soot**	—	LII Discussion Session
	17:20–17:40	**Influence of Surface Roughness on Optical Properties of Irregular Hexahedral Particles**	Oppermann T.	Particle characterization methods II
	17:40–18:00	**Drop Size, Position and Temperature Measurement using Defocused Phosphorescent Imaging**	Zhou W.	Particle characterization methods II
	18:00–19:30	**Meeting LII, ELS and LIP scientific and advisory boards**	—	Meeting

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**	C. Sorensen	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
- Particle light scattering, emission & detection
- SP2 and ex-situ LII
- Poster session
- LII : miscellaneous
- Social event
- LII Discussion Session
- Light scattering and inversion
- Force, torque, optical tweezers
- Guest Speaker

	Time	Title	Speaker	Topic
	09:20–10:00	**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
	10:00–10:20	**Linearized 3D vector radiative transfer model based on Monte Carlo method**	Sun B.	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	**Polarization from a single helical particle: absorption effects**	Surkov Y.	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**	James C.	Particle light scattering, emission & detection
	10:40–11:00	**Coffee break**		
	11:00–11:20	**Applicability limits of the geometric optics approximation**	Akay S.	Light scattering and inversion
	11:00–11:20	**Extracting maximum information from single scattering soot photometers**	Baumgardner D.	SP2 and ex-situ LII
	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
	11:20–11:40	**Traceable Automated Calibration of Laser Induced Incandescence Based Black Carbon Mass Analysers**	Symonds J.	SP2 and ex-situ LII
	11:40–12:00	**Seeking the overall size of a particle from the first Mueller matrix component**	Malaval F.	Light scattering and inversion
	11:40–12:40	**Modeling, data analysis, and uncertainty quantification**	—	LII Discussion Session
	12:00–12:20	**Scattering of polarization-entangled photons in an optically soft matter**	Lopushenko I.	Light scattering and inversion

	Time	Title	Speaker	Topic
	12:20–12:40	**Spatial dispersion in optical properties of layers of plasmonic nanoparticles**	Bortchagovsky E.	Light scattering and inversion
	12:40–14:00	**Lunch**		
	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
	14:00–14:20	**Investigation of soot evolution in n-heptane laminar flames at elevated pressures by laser-induced incandescence**	Wu Y.	LII : miscellaneous
	14:20–14:40	**Accelerating refractive-index sweeps in the discrete dipole approximation using shifted Krylov subspace method**	Argentin C.	Numerical methods
	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	**Implementation of the weighted discretization in the ADDA code**	Bouillon P.	Numerical methods
	14:40–15:00	**Laser-Induced Incandescence of Char Particles**	Sipkens T.	LII : miscellaneous
	15:00–15:20	**Light scattering by huge cubes: Discrete Dipole Approximation versus physical optics**	Yurkin M.	Numerical methods
	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	**Study on lateral far-field scattering depolarization of non-spherical nanoparticles based on the finite-difference time-domain method**	Cai T.	Numerical methods
	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	**Numerical Examination of “Large-Scale” Organization of Phase Matrix Element Structure in Some Smooth Particle Cases**	Panetta R.L.	Numerical methods
	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**		
	16:20–16:40	**Trapping Nanoparticles with Optical Tweezers**	Nieminen T.	Force, torque, optical tweezers
	16:20–17:20	**Combined techniques**	—	LII Discussion Session
	16:40–17:00	**Optical levitation in focused beams with spatial and polarization ellipticity: towards controllable coupled non-Hermitian oscillators**	Zemankova T. et al.	Force, torque, optical tweezers

	Time	Title	Speaker	Topic
	17:00–17:20	**Optical Nonlinearity-Assisted Trapping of Hollow-core Microparticles under Femtosecond Pulsed Excitation**	Alim A.	Force, torque, optical tweezers
	18:30–20:30	**Poster session**		

Poster session – Posters & presenters

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

Friday (10/07/2026)

Miscellaneous
Guest Speaker
Nanoparticle characterization
Ceremony
Social event

	Time	Title	Speaker	Topic
	09:00–09:40	**Laser-induced incandescence on metal nanoparticles**	K. Daun	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**		
	13:50–16:50	**Meeting point, for the visit of CORIA laboratory**		