

Monday, October 13 th			
11h30-12h30	Registration		
12h30-14h00	Lunch - Restaurant La Ruche		
14h-14h15	Organizers	Workshop Introduction	
Session 1: Color Centers in Nanodiamonds			Chair: M. Fujiwara
14h15-14h50	O. Shenderova	Next-generation fluorescent nanodiamond for biological quantum sensing	
14h50-15h10	V. Pugliese	Fabrication and opto-physical characterization of Magnesium-Vacancy color centers in nanodiamonds	
15h10-15h30	S. Potocky	Scalable synthesis of SiV-doped nanodiamonds via bottom-up and top-down CVD approaches	
15h30-15h50	M. de Feudis	Controlled HPHT annealing of SiV-doped nanodiamonds at SOLEIL synchrotron: structural and optical investigations	
15h50-16h20	Coffee Break		
Session 2: Advanced Characterizations & Surface Chemistry			Chair: O. Shenderova
16h20-16h55	A. Chemin	Advanced characterizations of nanodiamonds by synchrotron-based techniques	
16h55-17h15	J.C. Arnault	Extreme surface chemistry of isolated nanodiamonds probed by synchrotron X-ray photoemission	
17h15-17h35	M. Dubois	Fluorination: a smart approach to designing high-value sp ³ carbon-based nanomaterials: diamane and ultrapure nanodiamonds	
17h35-17h55	M. Finas	Nanodiamond band gap engineering: towards visible range photo activity	

Tuesday, October 14 th			
Session 3: Nanodiamonds for Energy			Chair: A. Chemin
9h-9h35	V. Guglielmotti	Gold and Silver Decorated Nanodiamond are multifunctional nanoparticles for generating solvated electrons	
9h35-9h55	D. Trucchi	Nanodiamond Technologies for High-Temperature Concentrated Solar Cells	
9h55-10h15	A. Bellucci	Laser nanotextured diamond for sunlight conversion	
10h15-10h35	H. Girard	Optimizing Nanodiamond Colloidal Suspensions: The Role of Surface Chemistry and Sonication Processes	
10h35-11h00	Coffee Break		
Session 4: Quantum Sensing			Chair: Y. Y. Hui
11h00 – 11h35	Q. Li	Spatially resolved temperature sensing in working electrochemical devices by nanodiamond quantum sensors	
11h35-11h55	M. Techer	Thermal mapping of heterogeneous materials using NV centers in highly doped nanodiamonds.	
11h55-12h15	B. Anezo	Sensing with NV- nanodiamonds : a spin active molecule and a metallic effect case	
12h15-12h35	G. Jacopin	Time-Resolved Thermal Sensing using Nanodiamond Cathodoluminescence Spectroscopy	
12h35-14h30	Lunch - Restaurant La Ruche		
Session 5: Posters			Details on the right
14h30-16h00	Poster Session		
16h00-16h30	Coffee Break		

Wednesday, October 15 th			
Session 7: Sensing & Bioapplications I			Chair: Q. Li
9h-9h35	M. Fujiwara	12C enriched Fluorescent Nanodiamonds for biomedical quantum sensing applications	
9h35-9h55	B. Grimaud	Measuring axonal transport using neurotropic fluorescent nanodiamonds	
9h55-10h15	M.-O. David	Nanodiamond Conjugates for Tracking Disease-Linked RNA-Binding Proteins	
10h15-10h35	G. Urbinati	Fluorescent Nanodiamond-based delivery systems for mitochondrial targeting of bioactive molecules	
10h35-11h00	Coffee Break		
Session 8: Sensing & Bioapplications II			Chair: F. Treussart
11h00 – 11h35	Y.Y. Hui	Nanodiamond Scintillator: A Novel Approach to Profiling EUV and Soft X-ray Beams for Photolithography	
11h35-11h55	S. Sofia	Surface tuning of nanodiamonds: investigating the impact of surface modifications for applications in radiosensitization	
11h55-12h15	W. Yingke	Precision Engineering of Immunocellular States via Intracellular Fever with Nanodiamond Composites	
12h15-12h35	B. Ercolani	Hybrid Nanozyme Systems based on Gold-Decorated Nanodiamonds for Advanced Electrochemical Sensing and SERS substrate.	
12h35-12h45	Organizers	Workshop Concluding Remarks	
12h45-14h30	Lunch - Restaurant La Ruche		

Poster Session (Tuesday 14h30 – 16h00)			
A. Kaga	Characterization of diamond electrodes with H-terminated N-doped nanolayers on B-doped films for CO ₂ reduction by electrochemical impedance spectroscopy		
D. Stanicki	Engineering Nanodiamonds for Enhanced EPR Imaging: Influence of Size, Surface Chemistry, and Paramagnetic Properties		
Y. Bouaouni	Surface-Modified Nanodiamonds for Enhanced Photocatalytic Hydrogen Generation		
A. Abi	Optical Communication via Rabi Oscillations in NV Center Ensembles		
V. Guglielmotti	Conversion of textile microfibers into nanodiamonds by HF-CVD		
T.X. Guo	Revealing the Factors of Broadening Potential Windows of Diamond Electrodes by Redox-active Additives		
C. Hareau	Studying optically-induced magnetic fields by NV scanning microscopy under optical excitation		
J.M. Layet	Boron- and phosphorus-doped diamond: modification of the electronic structure after exposure to a low-pressure deuterium plasma and its effect on the production of negative ions		
B. Malemo	Surface Functionalization of Nanodiamonds with NV Centers as a Platform for Bioimaging and Sensing		
Y.X. Tang	Ultrathin Fluorescent Nanodiamond Films for Quantum Sensing in Semiconductor Devices		
M. Tavakkoli	Localized Intracellular Thermometry Using NV Centers in Nanodiamonds with Gold Nanoparticle heaters: From Simulation to Experimental		
N. Vaast	New theoretical method to design quasi-atomic systems in the band gap of semiconductors by combining density functional theory and the Hubbard effective Hamiltonian: Applications to alpha boron and to the nitrogen-vacancy center in diamond		
O. Guillois	High Spectral Resolution Resonant Photoluminescence Excitation Spectroscopy of two Native Self-Interstitial Complexes in Electron-Irradiated Diamond		