

RFWNN 2019 - 10th Russian-French Workshop on Nanosciences and Nanotechnologies
June 12-14, 2019 - Clermont-Ferrand

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| Wednesday, June 12 | | | |
| 8:30 - 9:00 | Welcome and Opening remarks | | |
| Carbon and related hybrid nanomaterials 1 - Nanostructures 1 | | | |
| 09:00 | Talk 1 | A.V. Okotrub | SP2 carbon on diamond: formation and properties |
| 09:30 | Talk 2 | V.L. Kuznetsov | The formation of the reactive interfaces in the oxide matrix composites modified with carbon nanotubes |
| 10:00 | Talk 3 | D. Levshov | Investigating chirality-specific optical properties of double-walled carbon nanotubes for sample characterization |
| 10:30 - 11:00 | Coffee break | | |
| 11:00 | Talk 4 | M. Dubois | Fluorinated nanodiamonds as unique neutron reflector |
| 11:30 | Talk 5 | E. Flahaut | How surface chemistry influences the environmental impact of carbon nanomaterials |
| 12:00 | Talk 6 | E.D. Obraztsova | Films of filled single-wall carbon nanotubes: from unique properties to applications |
| 12:30 - 14:00 | Lunch | | |
| 14:00 | Talk 7 | A.N. Obraztsov | Diamond nano-needles: production, characterization, application |
| 14:30 | Talk 8 | M.O. Nestoklon | Tight-binding calculations of excitonic states in lead salt quantum dots |
| 15:00 | Talk 9 | R. Valleix | Synthesis and optical characterization of InP/ZnE (E=S, Se) quantum dots for LED applications |
| 15:30 | Talk 10 | M. Vladimirova | Control over dipolar exciton fluids in GaN/(AlGa)N nanostructures |
| 16:00 | Coffee break | | |
| City tour - The black cathedral | | | |

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| Thursday, June 13 | | | |
| Carbon and related hybrid nanomaterials 2 - Nanostructures 2 | | | |
| 08:30 | Talk 11 | L.G. Bulusheva | Halogenation of double-walled carbon nanotubes for improvement of gas sensing |
| 09:00 | Talk 12 | A. Ndiaye | Investigating the functionalization of carbon nanotubes surface for applications in gas sensors dedicated to pollutants detection |
| 09:30 | Talk 13 | T. Amand | Control of the exciton radiative lifetime in Van Der Waals heterostructures |
| 10:00 - 10:30 | Coffee break | | |
| 10:30 | Talk 14 | D. Solnyshkov | Optovalleytronics with polaritons in 2D monolayers of transitional metal dichalcogenides |
| 11:00 | Talk 15 | N. A. Gippius | Fourier modal method for the description of nanoparticle lattices in the dipole approximation |
| 11:30 | Talk 16 | F. Reveret | Polariton lasing in planar microcavities and waveguides up to room temperature |
| 12:00 - 13:30 | Lunch | | |
| Visit of ICCF and Institut Pascal laboratories - Excursion and dinner at the Puy de Dôme | | | |

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| Friday, June 14 | | | |
| Nanowires - Plasmonics, metasurfaces, THz | | | |
| 09:30 | Talk 17 | V.G. Dubrovskii | Regulation of the morphology and crystal phase in the ensembles of self-catalyzed III-V nanowires with two stable contact angles |
| 10:00 | Talk 18 | F. Glas | Nucleation statistics and length distributions in III-V nanowires - The poor and very poor group V regimes |
| 10:30 - 11:00 | Coffee break | | |
| 11:00 | Talk 19 | G.E. Cirlin | Form nanowires to nanoflowers: from IR to UV |
| 11:30 | Talk 20 | J.C. Harmand | Mechanisms involved in GaAs nanowire formation explored by in situ transmission electron microscopy |
| 12:00 | Talk 21 | H. Hijazi | Growth of GaAs nanowires by HVPE: influence and incorporation of Si dopant |
| 12:30 - 14:00 | Lunch | | |
| 14:00 | Talk 22 | M. Tchernycheva | Nitride nanowires for mechanically flexible devices |
| 14:30 | Talk 23 | V. Kochereshko | Magnetic field induced spatial dispersion of optical axes in quantum well structures |
| 15:00 | Talk 24 | A. Moreau | Self-assembled plasmonic resonators: from fundamental to applications |
| 15:30 | Talk 25 | S.A. Dyakov | Infrared metasurfaces for polarization control of thermal emission |
| 16:00 - 16:30 | Coffee break | | |
| 16:30 | Talk 26 | V.D. Kulakovskii | Terahertz radiation by dipolar exciton polaritons in GaAs microcavities |
| 17:00 | Talk 27 | A.V. Andrianov | THz photoluminescence from semiconductor structures |
| 17:30 | Conclusion | | |