

Welcome to **ChemOnTubes2016** !

The 6th International meeting on the chemistry of graphene and carbon nanotubes is organized in Brussels, Belgium at Hotel Le Plaza from April 3 - 7, 2016

This “chemistry – certified“ event will be the perfect place to share your latest results on chemistry at large on graphene, carbon nanotubes and other related nanoforms of carbon and hear about your colleagues' work in the area.

As usual, the conference will start on Sunday (April 3rd) afternoon and end on Thursday (April 7th) at noon, with two lively poster sessions.

Thank you for sharing with us the excitement of chemistry of graphenic surfaces, be they cylindrical, flat, crumpled, rolled, conical, etc...

Organising Committee:

- Gregory Van Lier (Free University of Brussels (VUB), Brussels, Belgium)
- Carla Bittencourt (Université de Mons, Mons, Belgium)
- Luc Henrard (FUNDP, Namur, Belgium)
- Alain Pénicaud (Université de Bordeaux – CNRS – CRPP, Bordeaux, France)
- Wim Wenseleers (University of Antwerp, Antwerp, Belgium)

Useful Information

Orals : **PLEASE** respect the timings given by the session chair! The programme is very full and we can't afford to 'slip'... Allow 5 minutes for questions, i.e. if you have 20 minutes in the programme, that's a 15 minute talk with 5 minutes for questions. Session chairs – be tough!! :-)

Posters : Although there are two scheduled poster sessions, access to the posters will be open at all times until the close of the conference. Poster boards are not numbered, choose whichever one you want.

Wi-Fi Access at the Conference: There will be free Wi-Fi access available in the conference room and poster gallery, using the code COT2016.

Telephone : The international country code when calling Belgium is +32.

Travel Information

Special arrangements have been made with Taxis Bleus for the conference, and the following phone number has been reserved for conference attendees: **+32.(0)2 264 98 06**.

This phone number is available for in and around Brussels and for the whole duration of the conference. For short distances, normal fares apply according to the taximeter.

By airplane to and from Brussels Airport

To travel to and from Brussels Airport, you can choose to either travel by train or by taxi. Depending on the arrival or departure time, there are up to four trains an hour between the airport and 'Brussel Noord' train station in less than 15 minutes.

More information on train schedules can be found at <http://www.nmbs.be/>

The train station and the Hotel are within walking distance, which takes approximately ten minutes, or travel by subway between the subway station 'Rogier' (exit Adolphe Max) and the train station, which is only one stop away.

A special arrangement has been made with Taxis Bleus for transfer between the airport and the Hotel. Upon arrival, please call Taxis Bleus at **+32.(0)2 264 98 06**, and mention it concerns the ChemOnTubes2016 conference. You can call directly before picking up your luggage, so the driver will be waiting upon your arrival. You can arrange the meeting point when you call. For departure the driver will pick you up at the Hotel entrance.

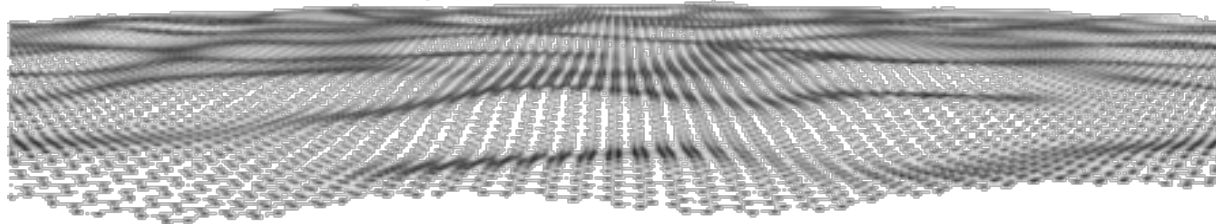
Clearly mention to the driver before departure that it concerns the ChemOnTubes2016 conference and that there is a fixed transfer rate to the Hotel of 35 EUR. If you meet at the arrival point, an extra small fare will be added for the waiting time.

By train to and from Brussels South station ('Station Brussel Zuid' in dutch or 'Gare Bruxelles Midi' in french)

The hotel is easily reachable by public transport. The Hotel is located next to the subway station 'Rogier', exit Adolphe Max. More information on public transport in Brussels can be found at : <http://www.stib.be/index.htm?l=en>

If you choose to travel by taxi, you can also call Taxis Bleus at **+32.(0)2 264 98 06**, and they will transfer you to and from the Hotel. Please note that here regular rates apply for the taxi transfer, but it should cost around 10-15 EUR, depending on traffic. Please also arrange the pick-up point when you call the taxi company.

Chem nTubes 2016



International meeting on the chemistry of graphene and carbon nanotubes

Brussels, Belgium, April 3 - 7, 2016

"Le Plaza" Hotel, Brussels, Belgium

Sunday 03 April 2016

15.00 - 17.00

Arrival and Registration

SESSION: DISPERSION AND APPLICATION 1

17.00 - 17.20

Welcome Address

17.20 - 18.00

Eric Anglaret

**Raman studies of bulk aqueous dispersions of
single layer graphene, "eau de graphene"**

18.00 - 18.20

Jonathan N Coleman

Liquid exfoliated nanosheets: From size selection to
optical properties to devices

18.20 - 18.40

Andrea Liscio

Scale-dependent fragmentation mechanism of two-
dimensional materials

18.40 - 19.00

Alejandro Anson-Casoas

Achievements and perspectives on carbon nanotube
conducting inks

19.00 - 19.20

Rajendra Kurapati

Biodegradation of Graphene Family Materials

19.30 - 21.30

WELCOME DINNER

Monday AM 04 April 2016

SESSION: DISPERSION AND APPLICATION 2

08.40 - 09.20	Ester Vazquez	Graphene in Water! Preparation and Applications
09.20 - 09.40	George Bepete	Single layer graphene in water
09.40 - 10.00	Hugo Navas	Dispersion of Graphene in Water for Heat Dissipation Application
10.20 - 10.40	Sheng Hu	Thermochemical processing of functionalized water-dispersed carbon nanomaterials for biological studies
10.20 - 10.50	Coffee Break	

SESSION: FUNCTIONALISATION AND APPLICATION

10.50 - 11.30	Nikos Tagmatarchis	Functionalization of azafullerene. New family of donor- acceptor dyads managing charge-transfer processes
11.30 - 11.50	Enzo Menna	Chemical modification of carbon nanostructures for nanocomposite functional materials
11.50 - 12.10	Teresa Gatti	Perovskite solar cells stabilized by carbon nanostructure P3HT blends
12.10 - 12.30	Géraud Delport	Cooperative organization of Porphyrin/ around carbon nanotubes : a thermodynamical approach
12.30 - 14.30	Lunch	

Monday PM 04 April 2016

SESSION: SENSORS

14.30 - 15.10	Esko I. Kauppinen	SWNT thin films for flexible electronics applications
15.10 - 15.30	Adeline Trouvé	Functionalized carbon nanotubes as sensitive layers for BTEX sensing
15.30 - 15.50	Shahzad Hussain	Plasma-based synthesis and functionalization of CNTs for a new generation of FET biosensors
15.50 - 16.10	David Pally	Influence of nanocarbon materials on electrochemical metallic micropollutants sensor
16.10 - 16.40	Coffee Break	

SESSION: FUNCTIONALISATION AND NANOCOMPOSITES

16.40 - 17.00	Cristina Vallés	Effect of the C/O ratio in Graphene Oxide on the Reinforcement of Epoxy-Based Nanocomposites
17.00 - 17.20	Isabella Anna Vacchi	Chemical investigation of graphene oxide reactivity through covalent functionalization
17.20 - 17.40	Noelia Rubio	Engineering Graphene with Polymers for the Preparation of Nanocomposites
17.40 - 18.00	Ferdinand Hof	GICs of nanocarbons and their role as effective reducing agent
18.00 - 18.20	Maurizio Prato	The European Graphene Flagship
19.30 - 22.00	Walking Dinner – Poster Session 1	

Tuesday AM 05 April 2016

SESSION: ADSORPTION AND CATALYSIS

09.00 - 09.20	Elisa S. Orth	Graphene-based reusable nanocatalysts
09.20 - 09.40	R. Menzel	Carbon Nanostructure Networks as Functional Support Frameworks in Adsorption and Catalysis
09.40 - 10.00	Antonin Desmecht	Synthesis of Chiral Catalysts Supported on Carbon Nanotubes
10.20 - 10.40	Nathalie Mager	Preparation of Nanocarbon Supported Nanoparticles by Strong Electrostatic Adsorption of New Water-Soluble Ruthenium Clusters
10.20 - 10.50	Coffee Break	

SESSION: NANOCOMPOSITES 1

10.50 - 11.30	Aldo J.G. Zarbin	Total Chemical Synthesis of Graphene and Graphene/Polymer Nanocomposites
11.30 - 11.50	Jose M. Gonzalez-Dominguez	Responsive graphene hydrogel nanocomposites through mechanical stretching
11.50 - 12.10	Katerina Kampioti	When food waste is not wasted: Nanocarbon applications
12.10 - 12.30	To be announced	
12.30 - 14.30	Lunch	

Tuesday PM 05 April 2016

SESSION: SYNTHESIS AND SORTING

14.30 - 15.10	Chang Liu	Controlled growth of semiconducting and metallic single-wall carbon nanotubes
15.10 - 15.30	Milo S. P. Shaffer	A One-Step Route to Nanocarbide Processing, Assembly, Application
15.30 - 15.50	Arianna Filoramo	High selective sorting of semiconductor single walled carbon nanotubes for optoelectronic and telecom applications
15.50 - 16.10	Emil Bjerglund Pedersen	Production of graphene by shear exfoliation of graphite flakes
16.10 - 16.40	Coffee Break	
16.40 - 18.30	Poster Session 2	

FREE EVENING

Wednesday AM 06 April 2016

SESSION: FUNCTIONALISATION

09.00 - 09.20	Claudia Struzzi	Tuning the electronic properties of graphene by fluorination
09.20 - 09.40	Martin Kalbac	Covalent functionalization of single layer graphene by gas-phase methods
09.40 - 10.00	Gonzalo Abellán	Reductive Covalent Functionalization of Graphene: Screening, Optimization and Monolayer Film Preparation
10.20 - 10.40	Jana Vejpravova	Tailoring wrinkle networks in single-layer graphene by monodisperse nanoparticles
10.20 - 10.50	Coffee Break	

SESSION: FUNCTIONAL MATERIALS

10.50 - 11.30	Vincent Meunier	Graphene-based nanostructures and heterojunctions from the bottom-up
11.30 - 11.50	Pierre-Henri Aubert	Electronically Conducting Polymers Combined with Vertically Aligned Carbon Nanotubes for Supercapacitor
11.50 - 12.10	Antonio Setaro	Extended Spiropyran-SWNTs conjugated complexes: A new class of photochromic materials
12.10 - 12.30	Chiara Cavallari	Hydrogen motions in defective graphene: the role of surface defects
12.30 - 14.30	Lunch	

Wednesday PM 06 April 2016

SESSION: NANOCOMPOSITES 2

14.30 - 14.50	Oren Regev	Thermally conductive graphene-based composites
14.50 - 15.10	Zhenyuan Xia	Graphene chemistry and nanoscale mechanics: scientific and technological perspectives
15.10 - 15.30	Leonid Chernozatonskii	Moiré nanomeshes based on graphene /h-BN and bi-graphene: structures and electronic properties
15.30 - 15.50	Mathieu Pinault	Conductivity of individual MWNTs used in composite fibres
15.50 - 16.20	Coffee Break	

SESSION: INTERFACE WITH BIOLOGY

16.20 - 17.00	Silvia Giordani	Multi-Functionalized Carbon Nano-Onions as Imaging Probes for Cancer Cells
17.00 - 17.20	Hannah Leese	Functionalised Carbon Nanomaterials as Nucleants for Protein Crystallisation
17.20 - 17.40	Florent Pineux	Biotechnological Promises of Fe-filled CNTs for cell shepherding and magnetic fluid hyperthermia applications
17.40 - 18.10	Maria Moragues Canovas, Sharali Malik	Presentation of COST and the new COST Action MultiComp

20.00 – 22.00 **GALA DINNER AND POSTER AWARD**

22.00 - ... **CONFERENCE PARTY**

Thursday 07 April 2016

SESSION: PURIFICATION AND SORTING

10.00 - 10.40	Jeffrey Fagan	Efforts Towards Total Control of SWCNT Structure and Endohedral Environment
10.40 - 11.00	Adam J. Clancy	Reductive Purification of SWCNTs and Systematic Comparison to Other Routes
11.00 - 11.30	Coffee Break	

SESSION: FUNCTIONALISATION AND DOPING

11.30 - 11.50	Wolfgang Maser	Influence of water in graphene oxide and its efficient removal by carbon nanotubes
11.50 - 12.10	Pierre Bonnet	Insertion of FeF ₃ into carbon nanotube cavity and correlated confined structure
12.10 - 12.30	Antoine Stopin	Fe-Filled Carbon Nanotubes: Modulation of Encapsulated Fe through Synthetic and Post-Synthetic Treatments
12.30 - 12.45	CLOSING REMARKS	
12.45 - 14.00	BUFFET LUNCH AND DEPARTURE	

POSTER SESSIONS

Melanie Achsnich	Spectroscopic Analysis of Chemically and Gate- Doped Single-Wall Carbon Nanotubes
Heather Au	Functionalisation of graphene for nanocomposite applications
Pierre Bonnet	Fluorination effect on UV-Vis absorption properties of colloidal C ₆₀ particles in room temperature ionic liquids
Sofie Cambre	Chirality-dependent densities of empty and filled carbon nanotubes by <i>in situ</i> spectroscopy in a density gradient after ultracentrifugation
Aldo Capobianchi	Morphological characterization of graphene sheets as obtained from thermally reduced graphene oxide
Elzbieta Czerwosz	Nanocomposite C-Pd films for different micro-, opto- and bio- applications
Joeri Defillet	Chirality-dependent surfactant stacking revealed by systematic aqueous two-phase separations
Géraud Delpont	Cooperative organization of Porphyrin/ around carbon nanotubes : a thermodynamical approach
Victor Demin	Theoretical investigation of the rhenium atoms influence on the graphene/MoS ₂ bilayer band structure
Patrizia Di Pietro	Plasma sulfur-functionalized graphene oxide/metallic nanoparticles nanoassemblies for the immobilization of biomolecules
Victoria Eckert	Investigation of the morphological properties of pristine and N-doped multi-walled carbon nanotubes regarding their straightness
Marius Enachescu	The SWCNTs synthesized by KrF laser ablation in different inert atmospheres
Robert Fuge	Synthesis of nitrogen doped and undoped MWCNTs and their length shortening as a function of ultrasonication energy input in aqueous dispersion
Enrique García-Bordejé	Graphene aerogels as a scaffold to disperse metal- free catalysts prepared by hydrothermal reduction of GO
Mareen Gläske	Enhancing the optical response of carbon nanotubes
Viviana Jehova González	Effect of different carbon nanostructures in the germination of chia seeds
Kai Huang	Industrial Scale Few Layer Graphene from Food Waste and its Applications
Emin Istif	Synthesis and Characterization of Poly(3- hexylthiophene)-Silver Nanoparticles-reduced graphene oxide composites
Alice A.K. King	Aligned Carbon Nanotubes for Tissue Engineering
Vicent Lloret	Covalent Carbon Nanotube Functionalization by Lithium Organyls
Cristina Martin	Smart Self-Healing Hydrogels based on Graphene
Udo Mundloch	Non-Covalent Functionalization of Carbon Nanotubes
Sean P. Ogilvie	Langmuir-Schaefer films of two-dimensional nanomaterials
Flávia G. Pacheco	Nanofluids of Carbon Nanomaterials in Vegetable Oils: Synthesis and Tribological Evaluation
Wagner Anacleto Pinheiro	Comparison of rheological properties of GO and rGO/PVP dispersions
Juvencio Robles	Insilico DFT and Docking Design of Nanotube-drug Nanovectors for improved transport and drug delivery
Ana Santidrian	Liquid phase Raman spectroscopy of carbon nanotubes sorted by gel chromatography
Milan Schirowski	New Covalent Derivatisation Pathways of SWCNTs and Mechanistic Insights
Claudia Struzzi	Fluorination of carbon nanostructures
Lorenzo Vallan	Synthesis of highly fluorescent N-doped Carbon Quantum Dots
Nicola Vicentini	Functionalized Carbon Nanotubes-Polymer Electrospun Nanofibers as Biocompatible Scaffold for Neuronal Cells Differentiation
Sandra Victor-Roman	Synthesis and dispersion of reduced graphene oxide used for thin film electrodes in organic photovoltaics
Thomas Vignal	Comparison of Electrochemical Deposition Methods of Poly-3-MethylThiophene for Supercapacitors Electrodes
Wim Wenseleers	Asymmetric dyes aligned inside carbon nanotubes yield a large nonlinear optical response
Aldo Zarbin	Synthesis and characterization of nickel hydroxide and graphene nanocomposites applied as cathode for alkaline batteries
Jinlong Zha	Superhydrophobicity via gas-phase monomers grafting onto carbon nanotubes