Schedule of HeteroNanoCarb-2017

Monday 11 th December 2017

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15:00/15:30	Departure Bus from Barcelona Downtown/Airport http://benasque.org/2017heteronanocarb/#bus
~20:15	Arrival Bus to Benasque
21:00	Welcome cocktail

Tuesday 12th December 2017

Wednesday 13th December 2017

Thursday 14th December 2017

8:30 - 8:45	Remarks - Anouncements				
8:45-10:50	Session I	8:45-10:50	Session IV	8:45-10:40	Session VII
10:50-11:15	Coffee Break	10:55-11:20	Coffee Break	10:40-11:05	Coffee Break
11:15-13:05	Session II	11:20-13:35	Session V	11:05-13:20	Session VIII
13:05-18:30	Free time	13:35-18:30	Free time	13:20-18:30	Free time
18:30-20:20	Session III	18:30-20:25	Session VI	18:30-20:20	Session IX
20:20-21:45	Poster session / Cocktail	20:25-21:45	Poster session / Cocktail	21:00	Conference Dinner

Friday 15 th December 2017

8:00	Departure Bus to Barcelona Airport/Downtown http://benasque.org/2017heteronanocarb/#bus
~13:00	Arrival Bus to Barcelona Airport

Tuesday 12th December 2017

8:45 – 10:50	Session - I	Chairs: R. Arenal – V. Meunier & Ph. Lambin
Invited Speaker	8:45 – 10:50	Interfacial Engineering of Two-Dimensional Nanoelectronic Heterostructures Mark C. Hersam m-hersam@northwestern.edu
	9:20 – 9:40	2D-0D HETEROSTRUCTURES FOR SPINTRONICS D.L. Mouafo*1, F. Godel2, B. Dlubak2, B. Doudin1, P. Seneor2, J.F. Dayen1* donald.mouafo@ipcms.unistra.fr
Invited Speaker	9:40 – 10:15	ELECTRODYNAMICS OF 2D HETEROSTRUCTURES Luc Henrard luc.henrard@unamur.be
Invited Speaker	10:15 – 10:50	Controlling the Assembly of 2-D Materials at Interfaces Alan Dalton A.B.Dalton@sussex.ac.uk
10:50 – 11:15		COFFEE BREAK
11:15 – 13:05	Session - II	Chairs: M. Paillet & P. Legagneux
Invited Speaker	11:15-11:50	Electrical probing of chains of carbon atoms – On the way to the ultimate 1D conductor? F. Banhart, F. Ben Romdhane, A. La Torre, O. Cretu, A. Botello-Mendez, JJ. Adjizian, JC. Charlier
		florian.banhart@ipcms.unistra.fr
	11:50-12:10	
	11:50-12:10 12:10-12:30	florian.banhart@ipcms.unistra.fr NO2 detection from the ppb level up to ppm concentrations using single-walled carbon nanotube (SWCNT)-based field effect transistors Leandro Sacco, Salomé Forel, Costel-Sorin Cojocaru

Tuesday 12th December 2017

18:30 – 20:20	Session - III	Chairs: M. Hersam & T. Pichler
Invited Speaker	18:30-19:05	Elastic properties and stability of physisorbed graphene Philippe Lambin philippe.lambin@unamur.be
	19:05-19:25	TERAHERTZ TIME-DOMAIN ROOM-TEMPERATURE GRAPHENE DETECTOR Pavel Chizhov, Vladimir Bukin, Tommi Kaplas, Cho-Fan Hsieh, Natsuki Nemoto, Konishi Kuniaki, Makoto Kuwata-Gonokami, Petr Obraztsov pvch@inbox.ru
	19:25-19:45	67 GHz optoelectronic mixing with graphene coplanar waveguides P. Legagneux et al. pierre.legagneux@thalesgroup.com
Invited Speaker	19:45-20:20	Graphene Nanoribbon Heterostructures Pascal Ruffieux pascal.ruffieux@empa.ch
20:20-21:45	Poster Session	Cocktail

Wednesday 13th December 2017

8:45 – 10:55	Session - IV	Chairs: L. Wirtz & F. Banhart
Invited Speaker	8:45 – 9:20	Functional hybrids of single-walled carbon nanotubes via π- preserving covalent attachment Stephanie Reich reich@physik.fu-berlin.de
	9:20 – 9:40	Atomic Configuration of Functionalized Carbon Nanotubes Raul Arenal arenal@unizar.es
	9:40 – 10:00	Computational investigation of the translocation of single polypeptide through MoS2 nanopores from ionic conductance dynamics Maria Daniela Barrios Perez, Patrice Delarue, Patrick Senet, Vincent Meunier, Adrien Nicolaï alehinad@gmail.com
	10:00 – 10:20	Transitional metal dichalcogenides functionalized with porphyrins for energy conversion Rubén Cantón Vitoria, Christina Stangel and Nikos Tagmtarchis canton@eie.gr
Invited Speaker	10:20 – 10:55	New insights on doping effect of (single-, double-wall-) carbon nanotubes by iodine Zubair A., Tristant D., Nie C., Monthioux M., et al.* marc.monthioux@cemes.fr
10:55 – 11:20		COFFEE BREAK
11:20 – 13:35	Session - V	Chairs: C. Bittencourt & A. Dalton
Invited Speaker	11:20-11:55	LET'S GO: A TRAVEL THROUGH THE WORLD OF GRAPHENE OXIDE Wolfgang K. Maser, Ana M. Benito wmaser@icb.csic.es
	11:55-12:15	TUNING AGGREGATION AND CHARGE TRANSFER OF P3HT NANOPARTICLES BY GO Emin Istif, Javier H. Fernandez, Esteban Urriolabeitia, Anastasios Stergiou, Nikos Tagmatarchis, Giuseppe Fratta, Matthew J. Large, Alan Dalton Ana M. Benito, Wolfgang K. Maser eistif@icb.csic.es
	12:15-12:35	Graphene Oxide based heterostructures: A Raman Characterization D. López-Díaz , J.A. Delgado, V. Clerico, M.D. Merchán , E. Diez , M.M. Velázquez dld@usal.es

12:35-12:55	PHOTOACTIVITY OF ZINC OXIDE NANOPARTICLES AND THEIR HYBRIDS WITH GRAPHENE OXIDE S. Víctor-Román*, A. M. Benito, E.García-Bordeje, W. K. Maser svictor@icb.csic.es
12:55-13:15	Controlled Assembly of Graphene Networks Using Polymer Latex Crystal Templates Manuela Meloni, Sandra Víctor Román, Alice King, Giuseppe Fratta, Mario Peláez Fernández, Sean Paul Ogilvie ,Matthew J. Large, Raùl Arenal, Ana Benito, Wolfgang Maser and Alan B. Dalton m.meloni@sussex.ac.uk
13:15-13:35	Photopotential and photocurrent improvement of TiO2 in alkaline media by an electrochemically reduced graphene oxide layer. Javier Hernández-Ferrer, Olga Sanahuja, Sandra Víctor, Mª Teresa Martínez, Alejandro Ansón-Casaos, Ana Mª Benito, Wolfgang K. Maser jhernandez@icb.csic.es

18:30 – 20:25	Session - VI	Chairs: E. Obraztsova & N. Casañ-Pastor
Invited Speaker	18:30-19:05	CORRELATING THE STRUCTURE OF 2D MATERIALS WITH THEIR CATALYTIC ACTIVITY Maya Bar Sadan barsadan@bgu.ac.il
	19:05-19:25	SG MoS2 hybrid for enhanced electrocatalytic activity Antonia Kagkoura, Dimitrios K. Perivoliotis and Nikos Tagmatarchis akagkoura@eie.gr
	19:25-19:45	Functional mats of electrospun MoS2 composite fibres Aline Amorim Graf, Matthew Large, Sean Ogilvie, Jonathan Salvage, Alice King, Alan Dalton a.amorim-graf@sussex.ac.uk
	19:45-20:05	NON-CONJUGATED POLYMER DOTS: SHINING LIGHT ON STRUCTURE AND FLUORESCENCE Lorenzo Vallan, Ana M. Benito, M. Teresa Martínez, Esteban P. Urriolabeitía, Wolfgang K. Maser Ivallan@icb.csic.es
	20:05-20:25	Experimental and DFT studies on the functionalisation of 2D nanomaterials with pyrene derivatives Y. Sayed-Ahmad-Baraza, R. Canton-Vitoria, M. Pelaez-Fernandez, B. Anothumakkool, C. Bittencourt, J. Gaubicher, R. Arenal, B. Humbert, N. Tagmatarchis, C. P. Ewels Yuman.Sayed-Ahmad@cnrs-imn.fr
20:25-21:45	Poster Session	Cocktail

Thursday 14th December 2017

8:45 – 10:40	Session - VII	Chairs: L. Henrard & P. Ruffieux
Invited Speaker	8:45 – 9:20	Excitons in layered materials: Rydberg-Series, Davydov-splitting in multi-layers, phonon- assisted optical absorption, and resonant Raman spectroscopy k Ludger Wirtz, Fulvio Paleari, Thomas Galvani, Sven Reichardt, Henrique Miranda, Hakim Amara, François Ducastelle ludger.wirtz@uni.lu
	9:20 – 9:40	Phosphorus Damien Tristant, Andrew Cupo and Vincent Meunier tristd@rpi.edu
	9:40 – 10:00	OPTOELECTRONIC PROPERTIES IN ATOMICALLY THIN MoxW(1-x)S2 FLAKES VIA LOW-LOSS EELS Mario Pelaez-Fernandez, Kazu Suenaga, Raul Arenal mariopf@unizar.es
	10:00 – 10:20	Coaxial plasmonic nanowires for remote sensing D. Funes-Hernando, J.Y. Mevellec, B. Humbert, M. Peláez- Fernández, R. Arenal, J.L. Duvail daniel.funes@cnrs-imn.fr
	10:20 – 10:40	Breathe, shear, repeat lattice vibration signatures of 2D materials Vincent Meunier vincent.meunier@physics.org
10:40 – 11:05		COFFEE BREAK
11:05 – 13:20	Session - VIII	Chairs: M. Monthioux & M. Bar Sadan
Invited Speaker	11:05-11:40	Plasma Fluorination of Carbon Nanomaterials Carla Bittencourt carla.bittencourt@umons.ac.be
	11:40-12:00	GRAPHENE AEROGEL WITH UNIDIRECTIONAL PORES OF TAILORED SIZE AND ITS APPLICATION AS HYDROPHOBIC ABSORBENT AND AS SUPPORT FOR CATALYTICALLY ACTIVE NANODIAMONDS Enrique García-Bordejé, Sandra Victor-Román, Ana M. Benito, Wolfgang Maser jegarcia@icb.csic.es
	12:00-12:20	Synthesis of nanodiamonds by hydrodynamic cavitation Ponomareva E.A., Dushenko N.V., Voropaev S.A., Dnestrovskii A.Yu., Skinev V.M. katerinaii@inbox.ru

12:20-12:40	Molybdenum carbide – graphite-matrix composites with high thermo-mechanical performance J. Guardia-Valenzuela, A. Bertarelli, F. Carra, N. Mariani, S. Bizzaro, R. Arenal jorge.guardia.valenzuela@cern.ch
12:40-13:00	Synthesis and characterization of a new conducting nanostructured carbon-based trihybrid as a neural bioelectrode material N.M. Carretero, M.P. Lichtenstein, C. Suñol, J. Moral-Vico, E. Pérez, N. Casañ-Pastor eperez@icmab.es
13:00-13:20	Fluorescently Labelled Carbon Nano-Onions For Cellular Imaging and Diagnostic Applications Stefania Lettieri, Adalberto Camisasca, Marta d'Amora, Alberto Diaspro and Silvia Giordani stefania.lettieri@iit.it

18:30 – 20:20	Session - IX	Chairs: S. Reich & W. Maser
Invited Speaker	18:30-19:05	Applications of single-wall carbon nanotubes separated over conductivity type E.D. Obraztsova, V. A. Eremina, A.I. Chernov, P.V. Fedotov, A.A. Tonkikh, V.I. Tsebro, E.A. Obraztsova, D.V. Rybkovskiy elobr@mail.ru
	19:05-19:25	ELECTROCHEMICAL TREATMENT OF METALLIC- AND SEMICONDUCTING- ENRICHED SINGLE-WALLED CARBON NANOTUBES FILMS A. Santidrián, J. Hernández-Ferrer, A.M. Benito, W.K. Maser, A. Ansón asantidrian@icb.csic.es
	19:25-19:45	Role of Hydrogen in High-yield Growth of Boron Nitride NT (BNNT) and Synthesis of BNNT-metal/ceramic Hybrids Keun Su Kim, Martin Couillard, Homin Shin, Christopher Kingston, and Benoit Simard KeunSu.Kim@nrc-cnrc.gc.ca
Invited Speaker	19:45-20:20	Raman and Photolumniscence investigation of Individual Freestanding Doble-Walled Carbon Nanotube M. Paillet, D.I. Levshov, R. Parret, HN. Tran, T. Michel, T.T. Cao, V.C. Ngyen, R. Arenal, V.N. Popov, S.B. Rochal, JL. Sauvajol, AA. Zahab matthieu.paillet@umontpellier.fr
21:00		Congress Dinner