

**18th INTERNATIONAL CONFERENCE
ON THE SCIENCE AND APPLICATION OF NANOTUBES
AND LOW-DIMENSIONAL MATERIALS**



In honor of Mildred S. Dresselhaus

**BELO HORIZONTE, MG – BRAZIL
25 TO 30 JUNE 2017**

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Welcome to the 18th International Conference on the Science and Application of Nanotubes and Low-Dimensional Materials

Since their conception in 1999, the NT International Conference Series attempts to provide an informal setting to exchange the most current information in the rapidly evolving research field of low-dimensional materials. The conference started addressing the one-dimensional nanotubes, and it naturally evolved to include two-dimensional systems.

The 18th Edition of the NT conference series will take place in Belo Horizonte, Brazil, from the 25th to the 30th June 2017. The venue is our University, the “Universidade Federal de Minas Gerais – UFMG”. Our scientific program will address the many different aspects of nanomaterials science, including synthesis and processing, toxicology and biomedicine, nanotube and graphene chemistry, biology and medicine, characterization and processing, theory and simulation, sensors and devices, composites, energy and environmental applications. Besides, we will offer social programs hoping that our visitors will have some flavor of our local culture.

We welcome you to Belo Horizonte and wish you a productive and memorable conference.

Sincerely,
Ado, Ariete and Marcos



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GENERAL INFORMATION

VENUE

SUNDAY, JUNE 25

Pampulha Art Museum

Address: Av. Otacílio Negrão de Lima, 16585 – Pampulha,
Belo Horizonte – MG, Brazil

2:00pm - 4:30pm	Registration
2:30pm - 4:30pm	Tutorials
4:30pm - 7:00pm	Welcome Reception

MONDAY TO THURSDAY, JUNE 26 TO 29:

CAD1 – Center for Academic Activities in Natural Sciences - UFMG

Address: Rua Prof. Baeta Viana, Belo Horizonte – MG

Federal University of Minas Gerais – UFMG

Address: Av. Pres. Antônio Carlos, 6627 - Pampulha, Belo Horizonte
- MG, Brazil

TUESDAY, JUNE 27: CONFERENCE TOUR TO INHOTIM MUSEUM

11:30am - Departure from CAD1 – UFMG to Inhotim.

4:30pm – transfer from Inhotim to Xapuri Restaurant

6:30pm - Banquet: Xapuri Restaurant

10:30pm - Departure from Xapuri Restaurant to the hotels

FRIDAY, JUNE 30 - SATELLITE SYMPOSIA

The Engineering School, Federal University of Minas Gerais - UFMG

Address: Av. Presidente Antônio Carlos, 6627 - Pampulha, Belo
Horizonte - MG, Brazil

LUNCH: Lunch will be served in the restaurant at the UFMG Services
square (*Praça de Serviços*).

The tickets you received with your badge must be presented at the
Restaurant

SECRETARIAT:

Secretary will be open daily from 8 am to 7 pm for assistance and
information.

CERTIFICATES:

Certificates will be available online, through the *conftool* system, which
can be accessed via our nt17.org web site after the 30th June 2017

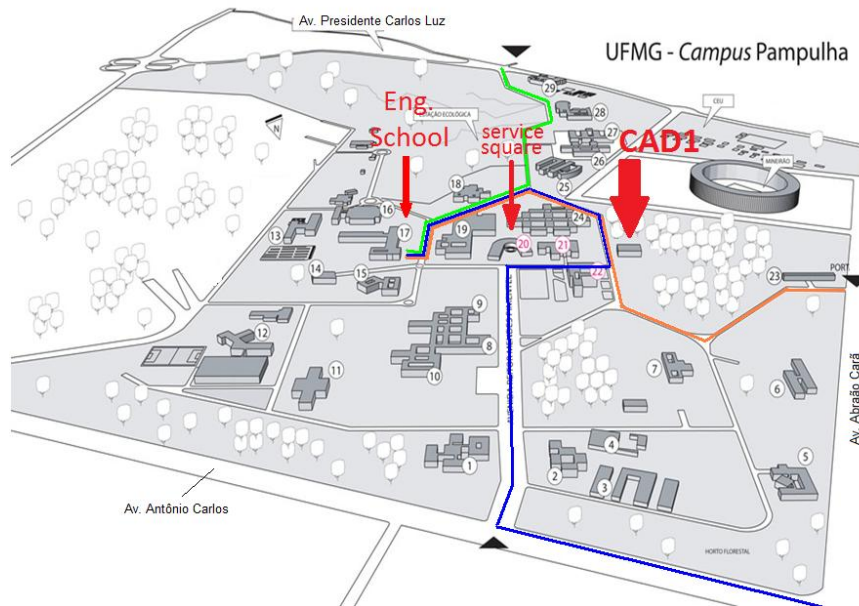
WI-FI

Wi-Fi will be available inside the conference room.

Network name: nt17

Password: bbeh10!

UFMG Map



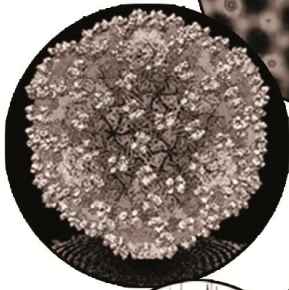
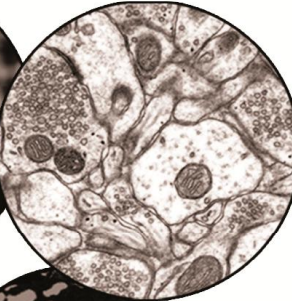
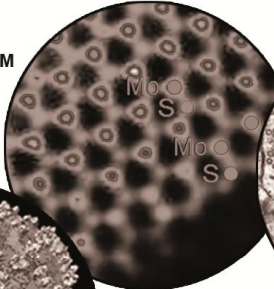
Main NT17 conference: CAD1
Satellite symposia: Eng. School
Lunch: Service square

Nanoscale Imaging & Analysis

Atomic Resolution TEM

Cryo Microscopy

Tomography

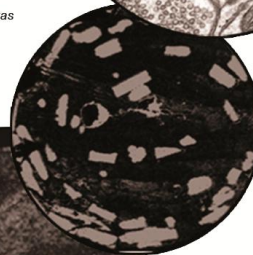


Kim, Univ. Texas

Chiu, Baylor Coll. Medicine

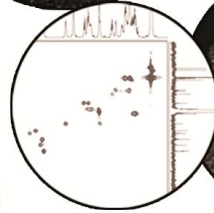
Elemental Analysis

Cross Section Perfection

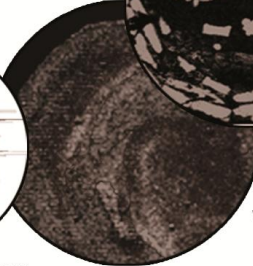


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CONFERENCE ACTIVITIES SCHEDULE

	Sun 25/June	Mon 26/June	Tue 27 June	Wed 28/June	Thu 29/June	Fri 30/June						
08:00 – 08:45		Registration				At the Engineering School Satellite Meetings						
08:45 – 09:00		Opening	Registration	Registration	Registration							
09:00 – 09:15			Keynote M.S.ARNOLD	Keynote A.SIRIA	Keynote S.K.DOORN		Keynote M.C.HERSAN					
09:15 – 09:30												
09:30 – 09:45			Invited E.JOSELEVICH	Invited V.MEUNIER	Invited S.REICH		Invited Q.CAO					
09:45 – 10:00												
10:00 – 10:15			Invited K.SUENAGA	Invited B.YACOBSON	Invited L.G.CANÇADO		Invited K.MATSUDA					
10:15 – 10:30												
10:30 – 10:45			Coffee Break & Exhibition	A.Latgé	Poster Sum.B R.KRUPKE		Poster Sum.D E. KAUPPINEN					
10:45 – 11:00				N.T.Hung								
11:00 – 11:15			Invited R.KITAURA	Coffee Break & Exhibition	Lunch box & Conference Tour		Poster Session B Characterization and Processing	Poster Session D Sensor/Device Composite Energy and Environ. Apps.				
11:15 – 11:30												
11:30 – 11:45		A.Zarbin	Lunch & Conference Tour	Lunch	Coffee Break & Exhibition		Coffee Break & Exhibition					
11:45 – 12:00		L. Zhang										
12:00 – 12:15		Esconjauregui										
12:15 – 12:30		T.S. Gspann										
12:30 – 12:45		14:00	Lunch	Lunch	Lunch		Lunch					
12:45 – 14:30												
14:30 – 14:45	Tutorials at the Pampulha Art Museum					Keynote H-M. CHENG		<i>For those who are not attending the conference tour, Horiba is offering the Horiba Fluorescence School (check our webpage)</i>	Invited J.S.LAURET	Invited K.HATA		
14:45 – 15:00											P.Venezuela	F.Pyatkov
15:00 – 15:15												
15:15 – 15:30											B.R.Carvalho	V.Jourdain
15:30 – 15:45												
15:45 – 16:00											Poster Sum. C C.BICHARA	Coffee Break & Exhibition
16:00 – 16:15												
16:15 – 16:30											Invited T.Livneh	
16:30 – 16:45	Invited C.Zamora											
16:45 – 17:00		Invited U.J.Kim										
17:00 – 17:15	Thanks Millie											
17:15 – 17:30		Welcome reception at the Pampulha Art Museum (ending 7pm)	Coffee Break & Exhibition	Enjoy the evening	Banquet	Enjoy the evening						
17:30 – 17:45												
17:45 – 18:00	Enjoy the evening	Banquet	Enjoy the evening	Enjoy the evening	Poster Award, NT18, Closing							
18:00 – 18:15												
18:30 –												

NT17 PROGRAM

SUNDAY, 25/JUN/2017	
Location: Pampulha Art Museum	
2:00pm - 4:30pm	Registration
2:30pm - 3:30pm	Tutorial – Theory, R.B. Capaz
3:30pm – 4:30pm	Tutorial – Characterization, C. Fantini
4:30pm - 7:00pm	Welcome reception
MONDAY, 26/JUN/2017	
Location: CAD1 (UFMG) - Lobby	
8:00am - 8:45am	Registration
Location: CAD1 (UFMG) - Noble Auditorium Chair: M. Maruyama	
8:45am - 9:00am	Opening
9:00am - 9:45am	KN 1: Michael S. Arnold SEMICONDUCTING CARBON NANOTUBE AND NANORIBBON ARRAYS FOR ELECTRONICS
9:45am - 10:15am	INV 1: Ernesto Joselevich COILING AND TWISTING NANOTUBES
10:15am - 10:45am	INV 2: Kasutomo Suenaga ATOMIC RESOLUTION ANALYSIS AND LOCAL PROPERTY MEASUREMENTS OF LOW-DIMENSIONAL STRUCTURES IN ELECTRON MICROSCOPE
Location: CAD1 (UFMG) - Lobby	
10:45am - 11:15am	- Coffee Break & Exhibition
Location: CAD1 (UFMG) - Noble Auditorium Chair: M. Terrones	
11:15am - 11:45am	INV 3: Ryo Kitaura TRANSITION METAL DICHALCOGENIDES BASED VAN DER WAALS HETEROSTACKS: FABRICATION AND PROPERTIES
11:45am - 12:00pm	ORAL 1: ARBON NANOSTRUCTURES (NANOTUBES AND GRAPHENE)-BASED NANOCOMPOSITE THIN FILMS FOR ADVANCED MULTIPURPOSE APPLICATIONS Authors: Aldo J.G. Zarbin , Samantha Husmann, Marcela M. Oliveira, Leandro Hostert1mailto, Elisa S. Orth
12:00pm - 12:15pm	ORAL 2: IN-SITU ETEM STUDY OF NUCLEATION AND GROWTH TERMINATION MECHANISM OF SINGLE-WALL CARBON NANOTUBES Authors: Lili Zhang , Jens Kling, Maoshuai He, Thomas W. Hansen, Hua Jiang, Esko I. Kauppinen, Jakob B. Wagner
12:15pm - 12:30pm	ORAL 3: LOW TEMPERATURE GROWTH OF CARBON NANOTUBE FORESTS WITH ENRICHED CHIRALITY Author: Santiago Esconjauregui

12:30pm - 12:45pm	ORAL 4: ULTRA-HIGH LONG GAUGE LENGTH THERMAL CONDUCTIVITIES OF CARBON NANOTUBE FIBRES AND THEIR DEPENDENCE ON MORPHOLOGY Authors: Thurid S. Gspann , Stefan Juckes, John Niven, Michael Johnson, James Elliott, Mary Anne White Alan H. Windle
Location: Service square (UFMG)	
12:45pm - 2:30pm	Lunch
Location: CAD1 (UFMG) - Noble Auditorium Chair: A. Zarbin	
2:30pm - 3:15pm	KN 2: Hui-Ming Cheng GROWTH OF HIGH-QUALITY GRAPHENE AND OTHER 2D MATERIALS BY CVD
3:15pm - 3:30pm	ORAL 5: THREE-DIMENSIONAL HYBRIDS BASED ON CARBON NANOTUBE AND 2D-LAYERED MATERIALS FOR ELECTRODES OF SUPERCAPACITORS Authors: Ryota Koizumi, Ana Paula P. Alves, Yang Yang, Chandra S. Tiwary, Robert Vajtai, Sehmus Ozden, Pulickel M. Ajayan, Glaura G. Silva
3:30pm - 3:45pm	ORAL 6: FUNCTIONALIZATION, AND SELECTIVE DIAMETER DOPING OF SINGLE-WALLED CARBON NANOTUBES Authors: Julio Cesar Chacón Torres , Claudia Kröckel, Stephanie Reich, Frank Hauke, Thomas Pichler, Andreas Hirsh
3:45pm - 4:00pm	ORAL 7: OPTICAL IDENTIFICATION OF SULFUR VACANCIES Authors: Victor Carozo , Yuanxi Wang, Kazunori Fujisawa, Bruno Carvalho, Vincent Crespi, Mauricio Terrones
4:00pm - 4:30pm	POSTER SUMMARY A: Yan Li SYNTHESIS AND PROCESSING - TOXICOLOGY AND BIOMEDICAL APPLICATIONS - NANOTUBE/ GRAPHENE CHEMISTRY & BIOLOGY & MEDICINE
Location: CAD1 (UFMG) - Lobby	
4:30pm - 6:00pm	Coffee Break & Exhibition POSTER SESSION A - SYNTHESIS AND PROCESSING - TOXICOLOGY AND BIOMEDICAL APPLICATIONS - NANOTUBE/ GRAPHENE CHEMISTRY & BIOLOGY & MEDICINE
TUESDAY, 27/JUN/2017	
Location: CAD1 (UFMG) - Lobby	
8:45am - 9:00am	Registration
Location: CAD1 (UFMG) - Noble Auditorium Chair: R.W. Nunes	
9:00am - 9:45am	KN 3: Alessandro Siria FLUIDICS AND MECHANICS WITH INDIVIDUAL NANOTUBES

9:45am - 10:15am	INV 4: Vincent Meunier PROPERTIES OF FUNCTIONAL 3D GYROIDAL CARBON NANOSTRUCTURES
110:15am - 10:45am	INV 5: Boris Yakobson LOW-DIMENSIONAL CARBON, THEORY OF GROWTH: NANOTUBES, CARBYNE
10:45am - 11:00am	ORAL 8: ENHANCEMENT OF THE RASHBA SPIN-POLARIZED CURRENTS IN CARBON NANOTUBES BY LOCALIZED DEFECTS Authors: Andrea Latge , Hernan Santos, Jose Alvarellos, Leonor Chico
11:00am - 11:15am	ORAL 9: SIZE EFFECT IN THERMOELECTRIC PERFORMANCE OF CARBON NANOTUBES AND OTHER LOW-DIMENSIONAL SEMICONDUCTORS Authors: Nguyen T.Hung , Ahmad R.T. Nugraha, Riichiro Saito
Location: CAD1 (UFMG) - Lobby	
11:15am - 11:45am	Coffee Break & Exhibition
Location: Inhotim	
11:45am - 6:00pm	Lunch box & Conference Tour
6:30pm - 10:30pm	Banquet
WEDNESDAY, 28/JUN/2017	
Location: CAD1 (UFMG) - Lobby	
8:45am - 9:00am	Registration
Location: CAD1 (UFMG) - Noble Auditorium Chair: L.M. Malard	
9:00am - 9:45am	KN 4: Stephen K. Doorn COVALENT DEFECT STATES IN CARBON NANOTUBES: PHOTOPHYSICS AND EMERGING FUNCTIONALITY
9:45am - 10:15am	INV 6: Stephanie Reich PRESERVING PI-CONJUGATION IN COVALENTLY FUNCTIONALIZED SINGLE-WALLED CARBON NANOTUBES Authors: Antonio Setaro, Mohsen Adeli, Mareen Glaeske, Daniel Przyrembel, Timo Bisswanger, Georgy Gordeev, Frederica Maschietto, Abbas Faghani, Beate Paulus, Martin Weinelt, Raul Arenal, Rainer Haag, Stephanie Reich
10:15am - 10:45am	INV 7: Luiz Gustavo Cançado PRESSURE-INDUCED FORMATION OF TWO-DIMENSIONAL DIAMOND FROM GRAPHENE LAYERS: A RAMAN SPECTROSCOPY EVIDENCE FOR THE DIAMONDENE
10:45am - 11:15am	POSTER SUMMARY B: Ralph Krupke CHARACTERIZATION AND PROCESSING
Location: CAD1 (UFMG) - Lobby	
11:15am - 12:45pm	Coffee Break & Exhibition POSTER SESSION B: CHARACTERIZATION AND PROCESSING

Location: Service square (UFMG)	
12:45pm - 2:30pm	Lunch
Location: CAD1 (UFMG) - Noble Auditorium Chair: E. Anglaret	
2:30pm - 3:00pm	INV 8: Jean-Sebastien Lauret OPTICAL INVESTIGATION OF CARBON NANOTUBES/ CHROMOPHORES HYBRIDS Authors: Geraud Delpont, Fabien Vialla, Lucile Orcin-Chaix, Stéphane Campidelli, Christophe Voisin, Jean-Sebastien Lauret
3:00pm - 3:15pm	ORAL 10: THE DOUBLE-RESONANCE RAMAN SPECTRA IN SINGLE-CHIRALITY (N, M) CARBON NANOTUBES Authors: Luciano G Moura, Marcus V O Moutinho, Pedro Venezuela , Francesco Mauri, Ariete Righi, Michael S Strano, Cristiano Fantini, Marcos A Pimenta
3:15pm - 3:30pm	ORAL 11: SYNTHESIS AND CHARACTERIZATION OF TWO- DIMENSIONAL AMORPHOUS CARBON FILMS Authors: Giacomo Argentero , Franz Eder, Viera Skakalova, Bernhard Bayer, Jani Kotakoski, Jannik Meyer
3:30pm - 3:45pm	ORAL 12: RESONANCE RAMAN SCATTERING IN 2D MOS2: UNVEILING THE INTERVALLEY SCATTERING BY ACOUSTIC PHONONS Authors: Bruno R. Carvalho , Yuanxi Wang, Sandro Mignuzzi, Debdulal Roy, Mauricio Terrones, Cristiano Fantini, Vincent H. Crespi, Leandro M. Malard, Marcos A. Pimenta
3:45pm - 4:00pm	ORAL 13: CHIRALITY ASSIGNMENT AND QUANTIFICATION FOR SELECTIVE GROWTH OF SINGLE-WALLED CARBON NANOTUBES Author: Yan Li
4:00pm - 4:30pm	POSTER SUMMARY C: Christophe Bichara THEORY AND SIMULATION - VAN DER WAALS HETEROSTRUCTURES - NON-CARBON MATERIALS
Location: CAD1 (UFMG) - Lobby	
4:30pm - 6:00pm	Coffee Break & Exhibition POSTER SESSION C: THEORY AND SIMULATION - VAN DER WAALS HETEROSTRUCTURES - NON-CARBON MATERIALS
THURSDAY, 29/JUN/2017	
Location: CAD1 (UFMG) - Lobby	
8:45am - 9:00am	Registration
Location: CAD1 (UFMG) - Noble Auditorium Chair: T. Pichler	
9:00am - 9:45am	KN 5: Mark C. Hersam EMERGING SECURITY APPLICATIONS FOR CARBON NANOTUBE THIN-FILM COMPLEMENTARY CIRCUITS

9:45am - 10:15am	INV 9: Qing Cao CARBON NANOTUBE FOR EXTREMELY SCALED LOGIC TRANSISTORS TO THE END OF THE TECHNOLOGY ROADMAP
10:15am-10:45am	INV10: Kazunari Matsuda NOVEL OPTICAL PHENOMENA OF NANO-CARBON AND ATOMICALLY THIN TWO-DIMENSIONAL MATERIALS
10:45am-11:15am	POSTER SUMMARY D - Esko Kauppinen SENSORS AND DEVICES - COMPOSITES - ENERGY AND ENVIRONMENTAL APPLICATIONS
Location: CAD1 (UFMG) - Lobby	
11:15am-12:45pm	Coffee Break & Exhibition POSTER SESSION D: SENSORS AND DEVICES - COMPOSITES - ENERGY AND ENVIRONMENTAL APPLICATIONS
Location: Service square (UFMG)	
12:45pm - 2:30pm	Lunch
Location: CAD1 (UFMG) – Noble Auditorium Chair: R.G. Lacerda	
2:30pm - 3:00pm	INV 11: Kenji Hata
3:00pm - 3:15pm	ORAL 14: WAVEGUIDE INTEGRATED ELECTRICALLY DRIVEN CARBON NANOTUBE LIGHT SOURCES Authors: Felix Pyatkov , Ralph Krupke
3:15pm - 3:30pm	ORAL 15: SELECTIVE DETECTION OF NEUROTRANSMITTERS BY ADSORPTION VOLTAMMETRY WITH CARBON NANOTUBE THIN FILM Authors: Takuya Ushiyama, Shigeru Kishimoto, Yutaka Ohno
3:30pm - 3:45pm	ORAL 16: VOLTAGE-ACTIVATED IONIC TRANSPORT THROUGH SINGLE-WALLED CARBON NANOTUBES Authors: Khadija Yazda, Saïd Tahir, Thierry Michel, Bastien Loubet, Manoel Manghi, Jeremy Bentin, Fabien Picaud, John Palmeri, François Henn, Vincent Jourdain
3:45pm - 4:00pm	ORAL 17: CARBON MATERIALS FOR WEARABLE ELECTRONICS Author: Yingying Zhang
Location: CAD1 (UFMG) - Lobby	
4:00pm - 4:30pm	Coffee Break & Exhibition
Location: CAD1 (UFMG) – Noble Auditorium Chair: O. Yaffe	
4:30pm - 5:00pm	INV 12: Zhipei Sun NANOSCALE NONLINEAR OPTICS WITH NANOTUBES AND LOW-DIMENSIONAL MATERIALS
5:00pm - 5:15pm	ORAL 18: HIGH PRESSURE AND LOW TEMPERATURE RAMAN SCATTERING IN INORGANIC FULLERENES OF MOS ₂ Authors: Tsachi Livneh , Eran Sterer, Rita Rosentsveig

5:15pm - 5:30pm	ORAL 19: LARGE SCALE CONDUCTIVE FILMS AND PATTERNS BASED ON CARBON NANOTUBES AND GRAPHENE LIQUID CRYSTALS Authros: Camilo ZAMORA-LEDEZMA , Fernando TORRES-CANAS, Cécile ZAKRI, Christophe BLANC, Eric ANGLARET, Philippe POULIN
5:30pm - 5:45pm	ORAL 20: OPTICAL GAIN IN MOS2 VIA COUPLING WITH NANOSTRUCTURED SUBSTRATE: FABRY-PEROT INTERFERENCE AND PLASMONIC EXCITATIONS Authors: Un Jeong Kim , Hye Yun Jeong, Yeonsang Park, Young Hee Lee, Young-Geun Roh, Sung Woo Hwang, Gang Hee Han, Hyun Kim, Youngjo Jin
5:45pm - 6:15pm	<i>Thanks Millie!</i>
6:15pm - 7:00pm	Poster Award, NT18 Announcement & Closing Ceremony

Poster Session A

SYNTHESIS AND PROCESSING - TOXICOLOGY AND BIOMEDICAL APPLICATIONS - NANOTUBE/GRAPHENE CHEMISTRY, BIOLOGY & MEDICINE

MONDAY, 26/JUN/2017

Location: **CAD 1(UFMG) – Lobby**

Time: **4:30pm - 6:00pm**

Poster number	Presentation
A.1	BEHAVIOR OF MONO- AND BI-METALLIC CATALYST IN CVD SYNTHESIS OF SWNTS REVEALED BY IN-PLANE TEM - <u>Rong Xiang</u> , Shigeo Maruyama the University of Tokyo, Japan; xiangrong@photon.t.u-tokyo.ac.jp
A.2	CARBON NANOMATERIALS FUNCTIONALIZED VIA UGI 4-COMPONENT REACTION (UGI-4CR) - <u>Cristiano Rodrigo Bohn Rhoden</u> ¹ , Ivana Zanella da Silva ² , Solange Binotto Fagan ³ , Sergio Roberto mortari ⁴ ¹ Centro Universitário Franciscano, Brazil; ² Centro Universitário Franciscano, Brazil; ³ Centro Universitário Franciscano, Brazil; ⁴ Centro Universitário Franciscano, Brazil; cristianorbr@gmail.com
A.3	CVD GRAPHENE TRANSFER BY A COMBINATION OF ELECTROCHEMICAL ETCH AND DRY TRANSFER TECHNIQUE - <u>Tiago Barros Cardoso</u> , Leonel Muniz Meireles, Rodrigo Gribel Lacerda, Thiago Cunha UFMG, Brazil; tadbc@hotmail.com
A.4	EASY AND DIRECT GENERATION OF MAGNETIC GRAPHENE OXIDE - <u>Cristiano Rodrigo Bohn Rhoden</u> ¹ , Luis Otavio de Souza Bulhoes ² , Sergio Roberto Mortari ³ ¹ Centro Universitário Franciscano, Brazil; ² Centro Universitário Franciscano, Brazil; ³ Centro Universitário Franciscano, Brazil; cristianorbr@gmail.com
A.5	EVALUATION OF THERMOPHYSICAL AND RHEOLOGICAL PROPERTIES OF CARBON NANOTUBE BASED NANOFUIDS - <u>Leonardo Mitre</u> ^{1,2} , Paula Rocha Lima Costa ¹ , Thaís Las Casas Ferreira Araújo ¹ , Denise das Mercês Camarano ¹ , Vinícius Mateó e Melo ² , Clascídia Aparecida Furtado ¹ , Adelina Pinheiro Santos ¹ ¹ CDTN, Brazil; ² PUCMinas-Chemical Eng.Department; leomitre@gmail.com
A.6	GAS-PHASE ETCHING OF CARBON NANOTUBES: KINETICS, THERMODYNAMICS AND BEYOND - <u>Qiuchen Zhao</u> ¹ , Zequn Wang ¹ , Fengrui Yao ² , Kaihui Liu ² , Jin Zhang ¹ ¹ Center for Nanochemistry, College of Chemistry and Molecular Engineering, Peking University, Beijing, 100871, P.R. China.; ² School of Physics, Peking University, Beijing, 100871, P.R. China.; zhaoqc-cnc@pku.edu.cn
A.7	GROWTH OF ALIGNED BUNDLES OF CARBON NANOTUBES ON ALUMINUM FLAKES - <u>Thiago Henrique R. da Cunha</u> ^{1,2} , Ícaro Leandro Martins ^{1,2} , Sérgio Oliveira ^{1,2} , Rodrigo Gribel Lacerda ^{1,2} , Luís Orlando Ladeira ^{1,2} , André Santarosa Ferlauto ^{1,2} ¹ CTNanotubos, Brazil; ² UFMG, Brazil; thiagocunha@ctnanotubos.com.br
A.8	HEXAVALENT CHROMIUM ADSORPTION ON GRAPHENE OXIDE DECORATED WITH NIFE ₂ O ₄ - Bibiana Culao Lopes, Luis Otávio Bulhões, <u>Sergio Roberto Mortari</u> Ciências Tecnológicas, UNIFRA, Brazil; mortari@unifra.br

A.9	<p>MECHANISM OF GROWTH OF SINGLE-WALLED CARBON NANOTUBES WITH SPECIFIC CHIRALITY ON DESIGNED SOLID CATALYSTS - <u>Shuchen Zhang</u>, Jin Zhang</p> <p>Center for Nanochemistry, College of Chemistry and Molecular Engineering, Peking University, China, People's Republic of; zhangsc-cnc@pku.edu.cn</p>
A.10	<p>NEW ONE-STEP IN SITU TECHNIQUE OF THE NANOTUBE AEROGEL PRODUCTION - <u>Dmitry V. Krasnikov</u>^{1,2}, Vladimir L. Kuznetsov^{1,2}, Maria A. Kazakova^{1,2}, Sergei I. Moseenkov², Anatoly I. Romanenko³, Valentin I. Suslyayev⁴, Igor O. Dorofeev⁴, Galina A. Kovalenko^{1,2}</p> <p>¹Novosibirsk State University, Novosibirsk, Russia; ²Boreskov Institute of Catalysis, Novosibirsk, Russia; ³Nikolaev Institute of Inorganic Chemistry, Novosibirsk, Russia; ⁴National Tomsk State University, Tomsk, Russia; dk@catalysis.ru</p>
A.11	<p>NITROGEN DOPED CARBON NANOTUBE SPONGE-TYPE SYNTHESIZED WITH ISOPROPANOL SOLUTIONS IN THE AACVD METHOD - <u>Alejandro Javier Cortés-López</u>, Florentino López-Urías, Emilio Muñoz-Sandoval</p> <p>Instituto Potosino de Investigación Científica y Tecnológica, A.C., México; alejandro.cortes@ipicyt.edu.mx</p>
A.12	<p>NOPO HIPCO SWCNT PROCESS DEVELOPMENT - <u>Gadhadar Changalaraya Reddy</u>, Dr. Robert Kelley Bradley</p> <p>NoPo Nanotechnologies (I) Private Limited, India; gadhadar@nopo.in</p>
A.13	<p>NOVEL TERNARY NANOCOMPOSITES BASED IN GRAPHENE, POLYTHIOPHENE AND MANGANESE DIOXIDE TO ENERGY STORAGE - <u>Josue Marciano de Oliveira Cremonuzzi</u>, Sergio Humberto Domingues</p> <p>Mackgrape - Graphene and Nanomaterials Research Center - Mackenzie Presbyterian University; josuecremonuzzi@hotmail.com</p>
A.14	<p>PEPTOID-MODIFIED FULLERENES AND THEIR APPLICATIONS - <u>Bruno Brisolla Ravanello</u>¹, Oscar Endrigo Dorneles Rodrigues², Marco Antonio Villetti², Bernhard Westermann¹</p> <p>¹Leibniz-Institut für Pflanzenbiochemie, Halle (Saale), Germany; ²Universidade Federal de Santa Maria, Santa Maria, Rio Grande do Sul, Brazil; bruno.brisollaravanello@ipb-halle.de</p>
A.15	<p>PLASMA ASSISTED CHEMICAL VAPOR DEPOSITION OF GRAPHENE ON COPPER SUBSTRATES - <u>Ramon R Leite</u>^{1,2}, Thiago H R da Cunha^{1,2}, Andre S Ferlauto^{1,2}</p> <p>¹Physics Department, UFMG, Brazil; ²CTNanotubos, UFMG, Brazil; ramon.rleite@hotmail.com</p>
A.16	<p>PROPERTIES OF CONFINED CNTS IN MESOPOROUS ALUMINA - Julieta Carballo¹, Federico Ribetto¹, Maximiliano Merlo², <u>Marcos Daniel Vozer Felisberto</u>³, Cesar Barbero⁴, Noelia Bajales²</p> <p>¹Grupo de Nanomateriales - Nanomat, Departamento de Física, FCEFQyN, Universidad Nacional de Río Cuarto, Río Cuarto, Córdoba, Argentina; ²Instituto de Física Enrique Gaviola - IFEG - CONICET, FaMAF, Universidad Nacional de Córdoba, Córdoba, Argentina; ³CTNano - Centro de Tecnologia em Nanomateriais, Belo Horizonte, Minas Gerais, Brazil; ⁴Departamento de Química, FCEFQyN, Universidad Nacional de Río Cuarto, Río Cuarto, Córdoba, Argentina; felisberto@ctnanotubos.com.br</p>

A.17	<p>SCALABLE SYNTHESIS OF CHIRALITY-CONSISTENT ULTRALONG CARBON NANOTUBE TANGLES - <u>Zhenxing Zhu</u>¹, Nan Wei², Huanhuan Xie¹, Yunxiang Bai¹, Lianmao Peng², Fei Wei¹</p> <p>¹Beijing Key Laboratory of Green Chemical Reaction Engineering and Technology, Department of Chemical Engineering, Tsinghua University, Beijing 100084, China; ²Key Laboratory for the Physics and Chemistry of Nanodevices, Peking University, Beijing 100871, China; zhenxing1013hg@163.com</p>
A.18	<p>SELF-ASSEMBLY OF COMPLEX CARBON NANOFIBERS INTO NITROGEN DOPED CARBON MICROBELTS VIA CHEMICAL VAPOR DEPOSITION - <u>Juan Luis Fajardo Diaz</u>, Alejandro Cortés López, Florentino López Urías, Emilio Muñoz Sandoval</p> <p>Instituto Potosino de Investigación Científica y Tecnológica, Mexico; juan.fajardo@ipicyt.edu.mx</p>
A.19	<p>SWNTS GROWTH FROM VARIOUS BI-METALLIC CATALYST NANOPARTICLES - <u>Salome Forel</u>¹, Alice Castan^{2,3}, Laure Catala², Ileana Florea¹, Frederic Fossard³, Fatima Bouanis¹, Amandine Andrieux³, Tallal Mallah², Vincent Huc², Annick Loiseau³, Costel-Sorin Cojocaru¹</p> <p>¹Ecole Polytechnique, France; ²Univ. Paris Sud, France; ³Onera, France; salome.forel@polytechnique.edu</p>
A.20	<p>SYNTHESIS AND CHARACTERIZATION OF CARBON NANOTUBES SYNTHETIZED BY CVD METHOD AND SUPPORTED IN NANOSTRUCTURED SOL-GEL SIO₂ TO BE APPLIED IN CEMENTITIOUS MATERIALS - <u>Tarcizo Cruz Souza</u>¹, Amanda Brasil², José Marcio Calixto^{1,2}, Luiz Orlando Ladeira^{1,3}, Manuel houmard²</p> <p>¹CTNano, Brazil; ²Engineering School - UFMG, Brazil; ³Physics - ICEX, Brazil; tarcizocruz@ctnanotubos.com.br</p>
A.21	<p>SYNTHESIS AND CHARACTERIZATION OF TiO₂/CARBON NANOSPHERE COMPOSITES - <u>Raira Cunha</u>¹, Patricia B. Martelli¹, Clascidia A. Furtado², Adelina P. Santos², H. F. Gorgulho¹</p> <p>¹Departamento de Ciências Naturais - UFSJ; ²Centro de Desenvolvimento da Tecnologia Nuclear - CDTN; rahcunha@hotmail.com</p>
A.22	<p>SYNTHESIS AND TRIBOLOGICAL EVALUATION OF CARBON NANOMATERIALS DISPERSIONS IN VEGETABLE OIL - <u>Flávia Gonçalves Pacheco</u>¹, Henara Lillian Costa², José Daniel Biasolli Mello², Márcia Marie Maru³, Adelina Pinheiro Santos¹, Clascidia Aparecida Furtado¹</p> <p>¹Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; ²Laboratório de Tribologia e Materiais, Universidade Federal de Uberlândia, Uberlândia, Brazil; ³Materials Metrology Division, INMETRO, Duque de Caxias, Brazil; flavia_pac@yahoo.com.br</p>
A.23	<p>UNVEILING THE EVOLUTIONS OF NANOTUBE DIAMETER DISTRIBUTION DURING THE GROWTH OF SINGLE-WALLED CARBON NANOTUBES - Hugo Navas¹, Matthieu Picher¹, Amandine Andrieux-Ledier², Frédéric Fossard², Thierry Michel¹, Akinari Kozawa³, Takahiro Maruyama³, Eric Anglaret¹, Annick Loiseau², Vincent Jourdain¹</p> <p>¹Université de Montpellier, Montpellier, France; ²Laboratoire d'étude des microstructures, CNRS-ONERA, Châtillon, France; ³Meijo University, Nagoya, Japan; vincent.jourdain@umontpellier.fr</p>

A.24	<p>EVALUATION OF BIOLOGICAL EFFECTS OF OXIDIZED MULTI-WALLED CARBON NANOTUBES/CHITOSAN HYBRIDS - <u>Estefânia Mara do Nascimento Martins</u>¹, Patrícia Baptista Ramos², Thayanna Furtado Teixeira¹, José Maria Monserrat², Ester Figueiredo de Oliveira¹, Clascídia Aparecida Furtado¹, Adelina Pinheiro Santos¹</p> <p>¹Centro de Desenvolvimento da Tecnologia Nuclear – CDTN/CNEN, Belo Horizonte, MG, Brazil; ²Programa de Pós-graduação em Fisiologia Animal Comparada, Instituto de Ciências Biológicas, Universidade Federal do Rio Grande – FURG, Rio Grande, RS, Brazil; estefaniamartinsbio@gmail.com</p>
A.25	<p>PEGYLATED SINGLE-WALLED CARBON NANOTUBES IN CENTRAL NERVOUS SYSTEM - <u>Gisele Eva Bruch</u>¹, Lidiane Dal Bosco², Arthur Poester Cordeiro¹, Sangram Sahoo³, Marcos Cordeiro¹, Cristiano Fantini³, Adelina Pinheiro Santos⁴, Daniela Martí Barros¹</p> <p>¹Universidade Federal do Rio Grande, Brazil; ²Universidade Federal do Pampa (UNIPAMPA), Brazil; ³Universidade Federal de Minas Gerais, Brazil; ⁴Centro de Desenvolvimento da Tecnologia Nuclear (CDTN), Brazil; giseleweber@zebrafish.com.br</p>
A.26	<p>TOXIC EFFECTS OF THE EXPOSURE OF SINGLE-WALLED CARBON NANOTUBES FUNCTIONALIZED WITH POLYETHYLENE GLYCOL TO ZEBRAFISH EMBRYOS - <u>Marcos Freitas Cordeiro</u>¹, Felipe Antonio Girardi², Gisele Eva Bruch¹, Carolina da Silva Peixoto¹, Lidiane Dal Bosco³, Sangram Keshari Sahoo⁴, Carla Onara Ferreira Gonçalves⁴, Adelina Pinheiro Santos⁴, Clascídia Aparecida Furtado⁵, Cristiano Leite Fantini⁴, Daniela Martí Barros¹</p> <p>¹Programa de Pós Graduação em Ciências Fisiológicas (PPGCF), Universidade Federal do Rio Grande (FURG), Rio Grande, RS, Brazil; ²Programa de Residência Multiprofissional em Atenção ao Câncer, Universidade de Passo Fundo (UPF), Passo Fundo, RS, Brazil; ³Universidade Federal do Pampa (UNIPAMPA), Uruguaiana, RS, Brazil; ⁴Universidade Federal de Minas Gerais (UFMG), Belo Horizonte, MG, Brazil; ⁵Centro de Desenvolvimento de Tecnologia Nuclear (CDTN), Belo Horizonte, MG, Brazil; mfcordeiro@furg.br</p>
A.27	<p>BLACK PHOSPHORENE AND PHOSPHORUS NANORIBBON INTERACTING WITH AMINO ACIDS: AN AB INITIO APPROACH - <u>Ivi Valentini Lara</u>^{1,2,3}, Antônio Gomes Souza Filho², Solange Binotto Fagan³</p> <p>¹PUCRS, Brazil; ²UFC, Brazil; ³UNIFRA, Brazil; ivilara@gmail.com</p>
A.28	<p>COMPOSITE BASED IN GRAPHENE OXIDE AND HYDROXYAPATITE FOR USE IN BONE AND DENTAL TISSUES ENGINEERING - <u>Erick de Souza Ávila</u>^{1,2}, Reka Barabás², Vania Raquel de Souza Ker¹, Luiz Orlando Ladeira¹, Loudiana Mosqueira Antônio¹, Lídia Maria de Andrade¹</p> <p>¹UFMG, Brazil; ²University of Babes-Bolyai, Romania; erickavila@gmail.com</p>
A.29	<p>DEVELOPMENT OF A GRAPHENE BIOSENSOR BASED ON FIELD-EFFECT TRANSISTOR FOR MOLECULAR MARKERS AND ENZYMATIC REACTIONS - <u>Paulo Alexandre Alves de Almeida Neves</u>¹, Leonel Muniz Meireles², Leonardo Campos², Rodrigo Gribel Lacerda², Eliane Novato Silva¹, Paulo Sérgio Lacerda Beirão¹</p> <p>¹Departamento de Bioquímica e Imunologia, UFMG; ²Departamento de Física, UFMG; pauloalmeidaneves@gmail.com</p>
A.30	<p>EFFECT OF VACANCIES ON THE ELECTRONIC AND OPTICAL PROPERTIES ON TWISTED BILAYER GRAPHENE - <u>Francisco Culchac</u>, Rodrigo Capaz</p> <p>Universidade Federal do Rio de Janeiro, Brazil; culchac@if.ufrj.br</p>

A.31	EFFECT ON THE FUNCTIONALITIES OF POROUS N-DOPED MWCNTS EXPOSED AT LOW-TEMPERATURE AND LONG-TIME ANNEALING - <u>Maria-Luisa Garcia-Betancourt</u> ¹ , Florentino López-Urías ² , Emilio Muñoz Sandoval ² ¹ Universidad Autónoma del Estado de Morelos, Mexico; ² Instituto Potosino de Investigación Científica y Tecnológica, Mexico; mluisa.garcia@uaem.mx
A.32	GRAPHENE-BASED NANOCOMPOSITE ANODE MATERIALS FOR LITHIUM ION BATTERY - <u>Ningzhong Bao</u> Nanjing Tech University, China, People's Republic of China; nzhbao@njtech.edu.cn
A.33	GRAPHENE-BASED SYSTEMS FOR BIOLOGICAL DELIVERY - <u>Julio C. Silva</u> , Raigna A. S. Z. Armond, Tome M. Schmidt Universidade Federal de Uberlandia, Brazil; juliofisi@gmail.com
A.34	NON-COVALENT FUNCTIONALIZED CARBON NANOTUBES WITH POLYETHYLENE GLYCOL AS A PLATFORM FOR BIOLOGICAL APPLICATIONS - <u>Livia Santos Gomides</u> ¹ , Júlia Barros Gomes ¹ , Clascídia Aparecida Furtado ¹ , Rosemeire Brondi Alves ² , Adelina Pinheiro Santos ¹ ¹ Nuclear Technology Development Center; ² Federal University of Minas Gerais; liviagomides@gmail.com
A.35	PROMOTION AND INVESTIGATION OF NON-COVALENT FUNCTIONALIZATION OF CARBON NANOTUBES WITH ANTITUMORAL APTAMER: PLATFORM WITH POTENTIAL FOR DIAGNOSIS OF COLORECTAL CANCER - <u>Mariana Botelho Barbosa</u> ¹ , Estefânia Mara do Nascimento Martins ¹ , Thayana Furtado Teixeira ¹ , Ester Figueiredo Oliveira ¹ , Clascídia Aparecida Furtado ¹ , Alexandre Alberto Chaves Cotta ² , Rodrigo Ribeiro Resende ³ , Adelina Pinheiro Santos ¹ ¹ Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; ² Universidade Federal de Lavras; ³ Universidade Federal > de Minas Gerais; mary.eubotelho@gmail.com
A.36	RARE-EARTH DOPED BORON NITRIDE NANOTUBES: SYNTHESIS AND CHARACTERIZATION - <u>Wellington Marcos da Silva</u> , Edésia Martins Barros Sousa Centro de Desenvolvimento da Tecnologia Nuclear - CDTN, Brazil; wmarcos@ufmg.br
A.37	SPIN WAVES IN ZIGZAG NANORIBBON GRAPHENE: STRAIN AND SPIN-ORBIT EFFECT - <u>Jorge Correa</u> Universidade Federal Fluminense, Brazil; jorgehuamani90@gmail.com
A.38	STUDY OF METAL NANOPARTICLES ENCAPSULATED IN GRAPHITE CARBON NANORIBBONS - Oscar Morales Cruz ¹ , Samuel Tehuacanero Cuapa ² , Florentino López Urías ³ , Emilio Muñoz Sandoval ³ , <u>Maria-Luisa Garcia-Betancourt</u> ¹ ¹ CIQ-IICBA, Universidad Autónoma del Estado de Morelos, Mexico; ² Instituto de Física, Universidad Nacional Autónoma de México, Mexico; ³ Instituto Potosino de Investigación Científica y Tecnológica, México; mluisa.garcia@uaem.mx
A.39	SYNTHESIS AND CHARACTERIZATION OF HYBRID CARBON NANOTUBE/CONDUCTING POLYMER FOR USE IN THE ACTIVE LAYER OF ORGANIC SOLAR CELLS - <u>Hállen Daniel Rezende Calado</u> , Luiza De L. Ferreira, Glenda R. B. S. Lacerda, Marcus H. de Araújo UFMG, Brazil; hallendaniel@yahoo.com.br

Poster Session B

CHARACTERIZATION AND PROCESSING

WEDNESDAY, 28/JUN/2017

Location: **CAD 1(UFMG) – Lobby**

Time: **11:15am - 12:45pm**

Poster number	Presentation
B.1	ABERRATION-CORRECTED TEM/ETEM-BASED RESEARCH ON SINGLE-WALLED CARBON NANOTUBES - <u>Hua Jiang</u> , Y. Tian, M. He, E. I. Kauppinen Aalto University School of Science, Finland; hua.jiang@aalto.fi
B.2	ANALYSIS OF CARBON NANOSTRUCTURES FOUND IN RIO NEGRO DEPOSIT AND TERRA PRETA DE INDIO - <u>Sugandha Dogra Pandey</u> ¹ , Camila Deschamps ¹ , Newton Falcão ² , André Prous ³ , Ado Jorio ¹ ¹ Federal University of Minas gerais, Brazil; ² Instituto Nacional de Pesquisas da Amazônia; ³ Seto de Arqueologia Pré-histórica, Museu de história Natural e jardim botânico da UFMG; sugandha@ufmg.br
B.3	ANISOTROPIC OPTICAL RESPONSE IN GROUP IV CHALCOGENIDE GeSe - <u>DIEGO SILVA SANTOS</u> ¹ , RAPHAEL LONGUINHOS ¹ , LEANDRO MALARD MOREIRA ² , THALES FERNANDES ² , BERNARDO NEVES ² , ADO JORIO VASCONCELOS ² , JENAINA RIBEIRO-SOARES ¹ ¹ UNIVERSIDADE FEDERAL DE LAVRAS, Brazil; ² UNIVERSIDADE FEDERAL DE MINAS GERAIS, Brazil; diego_13824@hotmail.com
B.4	CHARACTERIZATION OF SINGLE WALLED CARBON NANOTUBE ENANTIOMERS BY RAMAN OPTICAL ACTIVITY - <u>Martin Magg</u> , Thomas Bürgi Universite de Geneve, Département de Chemie physique Quai Ernest-Ansermet 30, CH-1211 Genève, Switzerland; Martin.Magg@unige.ch
B.5	CHARACTERIZATION OF THE CHIRAL STRUCTURE OF SINGLE-WALLED CARBON NANOTUBES ON SUBSTRATES - <u>Feng Yang</u> , Daqi Zhang, Juan Yang, Yan Li Peking University, Beijing, China; fengyang@pku.edu.cn
B.6	COMPARING TEM AND RESONANT RAMAN SPECTROSCOPY FOR DIAMETER DISTRIBUTION ASSESSMENT OF A SWCNT GROWTH SAMPLE - <u>Alice Castan</u> ^{1,2} , Salome Forel ² , Frédéric Fossard ³ , Amandine Andrieux-Ledier ³ , Costel Sorin Cojocaru ² , Vincent Huc ¹ , Annick Loiseau ³ ¹ Institut de Chimie Moléculaire et des Matériaux d'Orsay, Orsay, France; ² Laboratoire de Physique des Interfaces et des Couches Minces, Ecole Polytechnique, Palaiseau, France; ³ Laboratoire d'Etude des Microstructures, ONERA, Châtillon, France; alice.castan@u-psud.fr
B.7	DEVELOPMENT OF COMPOSITE ELECTROLYTE USING GO AND TRIETHYLSULFONIUM BIS (TRIFLUOROMETHYLSULFONYL) IMIDE (SET3TFSI) - <u>Neuma das Mercês Pereira</u> , Izabella de Freitas Monteiro, João Paulo Campos Trigueiro, Luciano Andrey Montoro, Glaura Goulart Silva Federal University of Minas Gerais, Brazil; neumampereira@gmail.com
B.8	DIAMETER-DEPENDENT EXCITATION ENERGY TRANSFER IN DYE-FILLED SINGLE-WALLED CARBON NANOTUBES - Stein Van Bezouw ¹ , Rachelle Ihly ² , Dylan Arias ² , <u>Sofie Cambre</u> ¹ , Jochen Campo ¹ , Wim Wenseleers ¹ , Jeffrey L. Blackburn ² ¹ University of Antwerp, Belgium; ² National Renewable Energy Laboratory, Golden, Colorado 80401, United States; sofie.cambre@uantwerpen.be

B.9	<p>EFFECT OF THE ORIENTATIONAL ORDER OF CNT SHEET ON THE OPTICAL PROPERTIES AND ON THE ALIGNMENT OF LIQUID CRYSTAL - <u>MD Asiqur Rahman</u>¹, Hakam Agha¹, Truong Thuy Kieu², Ji Hyun Park¹, DONGSEOK SUH², Giusy SCALIA¹</p> <p>¹University of Luxembourg, Luxembourg; ²Sungkyunkwan University, South Korea; mdasiqur.rahman@uni.lu</p>
B.10	<p>ELECTRODEPOSITION OF DIAMOND LIKE CARBON FILMS WITH NANOCRYSTALLINE DIAMOND - <u>Jaqueline S. Soares</u>¹, M. A. Araújo¹, D. Nicomedes¹, T. M. O. Santos², S. L. Ramos³, M. A. Pimenta³, A. P. Barboza¹, K. R. C. Juste², T. M. Manhabosco¹, R. J. C. Batista¹</p> <p>¹Departamento de Física, Universidade Federal de Ouro Preto, MG, Brasil; ²Centro de Inovação e Tecnologia SENAI FIEMG, MG, Brasil; ³Departamento de Física, Universidade Federal de Minas Gerais, MG, Brasil; jsoares@iceb.ufop.br</p>
B.11	<p>EPITAXIAL GRAPHENE GROWN ON SIC(0001): ELECTRONIC AND STRUCTURAL CHARACTERIZATION - <u>Igor de Souza Lana Antoniazzi</u>¹, Tháís Chagas Peixoto Silva¹, Alisson Ronieri Cadore¹, Rogério Magalhães Paniago¹, João Marcelo J. Lopes², Myriano Henriques de Oliveira¹</p> <p>¹UFMG - Universidade Federal de Minas Gerais, Brazil; ²Paul Drude Institute for Solid State Electronics, Germany; igorsouzalanaantoniazzi@gmail.com</p>
B.12	<p>EXCITON DYNAMICS IN DOPED CARBON NANOTUBES - <u>Tobias Hertel</u>¹, Melanie Achsnich¹, Klaus Eckstein¹, Pascal Kunkel¹, Friedrich Schoeppler¹, Larry Luer²</p> <p>¹Julius-Maximilians University of Wuerzburg, Wuerzburg, Germany; ²IMDEA, Madrid, Spain; tobias.hertel@uni-wuerzburg.de</p>
B.13	<p>HELIX STRUCTURE IN THE PHOTOELECTRON INTENSITY FROM THE DIRAC CONE OF GRAPHENE - <u>Shin-ichiro Tanaka</u>¹, Eike Schwier², Kenya Shimada²</p> <p>¹The institute of Scientific and Industrial Research, Osaka University, Japan; ²Hiroshima Synchrotron Radiation Center, Hiroshima University, Japan; stanaka@sanken.osaka-u.ac.jp</p>
B.14	<p>HIGH AMPACITY OF CVD-SPUN CARBON NANOTUBE YARNS AND THEIR FAILURE MECHANISMS - <u>Jeronimo Terrones</u>, Thurid S. Gspann, Adarsh Kaniyoor, James A. Elliott</p> <p>Department of Materials Science and Metallurgy, University of Cambridge, United Kingdom; jt451@cam.ac.uk</p>
B.15	<p>HOME-MADE DESIGN OF A SYRINGE PUMP FOR LIQUID FLOW IN GRAPHENE DEVICES INTEGRATED WITH MICROFLUIDIC CHANNELS - <u>Vinicius O. DA SILVA</u>, Leonel M. Meireles, Paulo A. A. Neves, Rodrigo G. LACERDA</p> <p>Physics Department, Federal University of Minas Gerais, UFMG, Belo Horizonte, MG, Brasil; v.ornelas@gmail.com</p>
B.16	<p>IN SITU ANALYSIS OF SP2 CARBONS UNDER EXTREME CONDITIONS USING RAMAN SPECTROSCOPY - <u>Mohamed Ramzi ammar</u>¹, Aurélien Canizarès¹, Thibault Labbaye², Shahzad Hussain², Eva Kovacevic², Chantal Boulmer-Leborgne², Guillaume Guimbretière¹, Nicole Raimboux¹, Jacques Poirier¹, Patrick Simon¹</p> <p>¹CEMHTI, France; ²GREMI; mohamed-ramzi.ammar@cnrs-orleans.fr</p>

B.17	<p>INNER TUBE PHOTOLUMINESCENCE OF ISOLATED INDIVIDUAL FREE-STANDING INDEX-IDENTIFIED DOUBLE-WALLED CARBON NANOTUBES - Dmitry Levshov^{1,2}, Romain Parret¹, Huy-Nam Tran¹, <u>Thierry Michel</u>¹, Thi Thanh Cao³, Van Chuc Nguyen³, Raul Arenal⁴, Valentin Popov⁵, Sergei Rochal², Jean-Louis Sauvajol¹, Ahmed-Azmi Zahab¹, Matthieu Paillet¹</p> <p>¹Laboratoire Charles Coulomb, University of Montpellier, Place Eugène Bataillon - CC069, Montpellier, F-34095 France; ²Southern Federal University, Rostov-on-Don, Russia; ³Institute of Materials Science, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Hanoi, Vietnam; ⁴Instituto de Nanociencia de Aragón, Campus Río Ebro. Edificio I+D. C/ Mariano Esquillo, CP 50.018 Zaragoza – Spain; ⁵University of Sofia, Faculty of Physics, 5 James Bourchier Blvd., 1164, Sofia, Bulgaria; thierry.michel@umontpellier.fr</p>
B.18	<p>LARGE SCALE AUTOMATIC DATA ANALYSIS TOOLS FOR SP2 CARBON - <u>Hudson Luiz Silva de Miranda</u>¹, Cassiano Rabelo¹, Joao Luiz Elias Campos², Ado Jorio^{1,2}</p> <p>¹Programa de Pós-Graduação em Engenharia Elétrica, Univ. Federal de Minas Gerais; ²Departamento de Física, Univ. Federal de Minas Gerais; hudsonmiranda291@gmail.com</p>
B.19	<p>LASER-ASSISTED OXIDATION OF IRON NANOPARTICLES IN SINGLE WALL CARBON NANOTUBES AND CHANGES OF OPTICAL PROPERTIES OF SWCNTS FILMS - <u>Vsevolod Iakovlev</u>¹, Konstantin Mikheev², Gennady Mikheev², Faat Gilmutdinov³, Albert Nasibulin^{1,4}</p> <p>¹Skolkovo Institute of Science and Technology, 143026, Skolkovo, Russia; ²Institute of Mechanics, Ural Branch of the Russian Academy of Sciences, 426067, Izhevsk, Russia; ³Physical-Technical Institute, Ural Branch of the Russian Academy of Sciences, 426000, Izhevsk, Russia; ⁴Aalto University, Department of Applied Physics, 00076 Aalto, Finland; vsevolod.iakovlev@skolkovotech.ru</p>
B.20	<p>MECHANICAL STUDY OF THE GRAPHENE WATER INTERACTION - <u>Gustavo Arrighi Ferrari</u>, Leonel Muniz Meirelez, Thales F. Damasceno Fernandes, Ive Silvestre, Bernardo R. A. Neves, Rodrigo Gribel Lacerda</p> <p>UFMG, Brazil; gu.fisica@gmail.com</p>
B.21	<p>MULTIWALL CARBON NANOTUBES FILLED WITH AL4C3: SPECTROSCOPIC SIGNATURES FOR ELECTRON-PHONON COUPLING DUE TO DOPING PROCESS - <u>Newton Barbosa</u>¹, Mario Edson Souza¹, Rômulo Angélica¹, Sônia Simões², Manuel Vieira², Marcos Allan Reis¹, Mildred Dresselhaus³, Paulo Araujo⁴</p> <p>¹Universidade Federal do Pará, Brazil; ²Universidade do Porto, Portugal; ³Massachusetts Institute of Technology, USA; ⁴The University of Alabama, USA; newtonfisico@gmail.com</p>
B.22	<p>NANOSCALE INFRARED SPECTROSCOPY MAPPING OF CHEMICAL FUNCTIONAL GROUPS ON TWO-DIMENSIONAL SURFACES - <u>Aravind Vijayaraghavan</u></p> <p>The University of Manchester, United Kingdom; aravind@manchester.ac.uk</p>
B.23	<p>ONSET OF SIZE-DEPENDENT FLEXURAL HARDENING OF 2D MATERIALS - <u>Ana Paula Barboza</u>¹, Helio Chacham², Alan Oliveira¹, Camilla Oliveira³, Ronaldo Batista¹, Bernardo Neves²</p> <p>¹Universidade Federal de Ouro Preto (UFOP), Brazil; ²Universidade Federal de Minas Gerais (UFMG), Brazil; ³Universidade Federal do Paraná (UFPR), Brazil; ana.paula@iceb.ufop.br</p>

B.24	<p>OPTICAL CHARACTERIZATION OF SWCNTS WITH TAILORED FUNCTIONAL SITES - <u>Claudia Berkmann</u>¹, Lei Shi¹, Philip Rohringer¹, Carlos Reinoso¹, Kazuhiro Yanagi², Thomas Pichler¹, Paola Ayala^{1,3}</p> <p>¹University of Vienna, Austria; ²Tokyo Metropolitan University, Japan; ³Yachay Tech University, Ecuador; claudia.berkmann@univie.ac.at</p>
B.25	<p>OPTICAL PROPERTIES OF ALPHA-SEXITHIOPHENE DYES AGGREGATED INSIDE CARBON AND BORON NITRIDE NANOTUBES - <u>Etienne Gaufrès</u>¹, Charlotte Allard², Nathalie Tang³, Frédéric Fossard¹, Léonard Schué¹, Julien Barjon⁴, Richard Martel³, Annick Loiseau¹</p> <p>¹Laboratoire d'Etude des Microstructures UMR 104 CNRS, Onera; ²Regroupement québécois sur les matériaux de pointe (RQMP) and Département de Physique, Université de Montréal; ³RQMP, Département de Chimie Université de Montréal; ⁴Groupe d'Etude de la Matière Condensée UMR 8635 CNRS-UVSQ; etienne.gaufres@onera.fr</p>
B.26	<p>PRESSURE-INDUCED AN IRREVERSIBLE CROSS-LINKING BETWEEN LINEAR CARBON CHAIN AND INNER TUBE OF DWCNT: A COMBINED EXPERIMENTAL RAMAN AND THEORETICAL STUDY - Wellington de Queiroz Neves^{1,2}, <u>Rafael Silva Alencar</u>², Abraão Cefas Torres Dias², Nádia Ferreira de Andrade³, Yoong Ahm Kim⁵, Morinobu Endo⁶, D Kim⁵, Acrisio Lins de Aguiar⁴, Antonio Gomes Souza Filho²</p> <p>¹Instituto Federal de Educação, Ciência e Tecnologia do Ceará – IFCE, Caucaia, Ceará, 61609-090 Brazil; ²Departamento de Física, Universidade Federal do Ceará, Fortaleza, Ceará, 60455-900, Brazil; ³Instituto Federal de Educação, Ciência e Tecnologia do Ceará – IFCE, Tianguá, Ceará, 62320-000 Brazil; ⁴Departamento de Física, Universidade Federal do Piauí, Teresina, Piauí 64049550 Brasil; ⁵School of Polymer Science and Engineering, Chonnam National University, 77 Yongbongro, Gwangju, 500-757, Korea; ⁶Faculty of Engineering, Shinshu University, 4-17-1 Wakasato, Nagano-shi 380-8553, Japan; rafael_alencar@fisica.ufc.br</p>
B.27	<p>PRESSURE-INDUCED RADIAL COLLAPSE IN DOUBLE-WALL CARBON NANOTUBES: A COMBINED EXPERIMENTAL AND THEORETICAL STUDY - <u>Rafael Silva Alencar</u>^{1,2}, Wenwen Cui¹, Abraão Cefas Torres Dias^{1,2}, Tiago Frederico Teixeira Cerqueira^{1,3}, Silvana Botti^{3,1,4}, Miguel Alexandre Lopes Marques^{5,1,4}, Odair Pastor Ferreira², Christophe Laurent⁶, Alicia Weibel⁶, Denis Machon¹, David J Dunstan⁷, Antonio Gomes de Souza Filho², Alfonso San-Miguel¹</p> <p>¹Université de Lyon, F-69000 Lyon, France and Institut Lumière Matière, CNRS, UMR 5306, Université Lyon 1, F-69622 Villeurbanne; ²Departamento de Física, Universidade Federal do Ceará, Fortaleza, Ceará, 60455-900 Brazil; ³Institut für Festkörpertheorie und optik Friedrich-Schiller, University of Jena, Max-Wien-Platz 1, 07743 Jena, Germany; ⁴European Theoretical Spectroscopy Facility; ⁵Institut für Physik Martin-Luther-Universität Halle-Wittenberg, D-06099 Halle, Germany; ⁶CIRIMAT, Université Paul Sabatier et CNRS, Toulouse, France; ⁷School of Physics and Astronomy, Queen Mary University of London, London E1 4NS, UK; rafael_alencar@fisica.ufc.br</p>
B.28	<p>PROBING CRYSTALLINITY OF PHOTONIC-SORTED CNT TEXTILES WITH EXTREME MAGNETIC FIELDS AND RAMAN SPECTROSCOPY - <u>John Simmons Bulmer</u>¹, Thurid S. Gspann¹, Francisco Orozco¹, Martin Sparkes¹, Hilmar Hilmar Koerner², Angelo Di Bernardo¹, Arkadiusz Niemiec¹, Agnieszka Lekawa-Raus¹, Dwight Rickel³, Fedor Balakirev³, Jason Robinson¹, Krzysztof Koziol¹, William O'Neill¹, James Elliott¹</p> <p>¹Cambridge University, United Kingdom; ²Materials and Manufacturing Directorate, Air Force Research Laboratory, Wright-Patterson Air Force Base, Ohio, USA; ³National High Magnetic Field Laboratory, Los Alamos, New Mexico 87545, USA; johnofkabal@gmail.com</p>

B.29	PROGRESS IN UNDERSTANDING OF CARBYNES CONFINED INSIDE DOUBLE WALLED CARBON NANOTUBES - <u>thomas pichler</u> university of vienna, Austria; thomas.pichler@univie.ac.at
B.30	QUANTITATIVE ANALYSIS OF CIRCULAR DICHROISM OF CARBOON NANOTUBES - <u>Riichiro Saito</u> , Naomichi Sato, Yuki Tatsumi Department of Physics, Tohoku University, Japan; rsaito@flex.phys.tohoku.ac.jp
B.31	QUANTUM CORRELATIONS IN THE STOKES/ANTI-STOKES RAMAN SCATTERING PHOTON PAIRS - <u>Filomeno Júnior</u> ¹ , Mark Kasperczyk ² , Cassiano Rabelo ¹ , Georgy Gordeev ³ , Stephanie Reich ³ , Lukas Novotny ² , Ado Jorio ¹ ¹ Federal University of Minas Gerais (UFMG) - Brazil; ² Photonics Laboratory, ETH Zurich - Zurich, Switzerland.; ³ Freie Universität Berlin - Berlin, Germany; fsa.juniorfisicaufv@gmail.com
B.32	QUASI PHASE TRANSITION IN A SINGLE FILE OF WATER MOLECULES ENCAPSULATED INSIDE (6,5) CARBON NANOTUBES - <u>Sofie Cambre</u> ^{1,2} , Xuedan Ma ² , Wim Wenseleers ¹ , Stephen K. Doorn ² , Han Htoon ² ¹ University of Antwerp, Belgium; ² Center of Integrated Nanotechnologies, Los Alamos National Laboratory, USA; sofie.cambre@uantwerpen.be
B.33	RESONANCE RAMAN SPECTROSCOPY IN TWISTED BILAYER GRAPHENE - <u>Eliel Gomes da Silva Neto</u> ¹ , Marcus V. O. Moutinho ^{2,3} , Ariete Righi ¹ , Henrique B. Ribeiro ⁴ , Chun Chien Lu ⁵ , Kentaro Sato ⁶ , Riichiro Saito ⁷ , Po Wen Chiu ⁵ , Pedro Venezuela ³ , Marcos Pimenta ¹ ¹ UFMG, Brazil; ² UFRJ, Brazil; ³ UFF, Brazil; ⁴ UPM, Brazil; ⁵ National Tsing Hua University, Taiwan; ⁶ Sendai National College of Technology, Japan; ⁷ Tohoku University, Japan; elielgsn@gmail.com
B.34	RESTRUCTURING OF GRAPHITE NANOBELTS UNDER FAST HIGH TEMPERATURES PROCESSING - <u>Stanislav Moshkalev</u> ¹ , Andrei Alaferdov ¹ , Raluca Savu ¹ , Mara Canesqui ¹ , Yakov Kopelevich ¹ , Robson Silva ¹ , Natalia Rozhkova ² , Geraldo Trindade ³ , Ueverson Lima ³ , Antonio Sergio Souza ³ ¹ UNICAMP, Brazil; ² KRC RAS, Russia; ³ Nacional de Grafite Ltda, Brazil; stanisla@unicamp.br
B.35	SOLVENT-DEFINED AND TEMPERATURE-OPTIMIZED OPTOELECTRONIC PERFORMANCE OF SINGLE-WALLED CARBON NANOTUBE FILMS DOPED WITH HAUCL ₄ - <u>Alexey P. Tsapenko</u> ¹ , Anastasia E. Goldt ¹ , Anton S. Anisimov ² , Albert G. Nasibulin ^{1,3} ¹ Skolkovo Institute of Science and Technology, Nobel str. 3, 143026, Moscow, Russia; ² Canatu Ltd., Konalankuja 5, 00390, Helsinki, Finland; ³ Aalto University, Department of Applied Physics, 00076, Aalto, Finland; alexey.tsapenko@skolkovotech.ru
B.36	STRUCTURAL, MORPHOLOGICAL AND SURFACE EVALUATION OF MWCNTS OXIDIZED BY ACID REFLUX, IN MICROWAVE OVEN, FOR DIFFERENT TIMES, FOR BIOAPPLICATIONS - <u>Hugo Campos Souto</u> , Mariana Botelho Barbosa, Estefânia Martins Nascimento, Adelina Pinheiro Santos, Clascídia Aparecida Furtado, Ester Figueiredo de Oliveira Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; hugo.campossouto@gmail.com
B.37	THE EFFECTS OF MORPHOLOGY ON PROPERTY SCALING IN MACROSCOPIC ASSEMBLIES OF CARBON NANOTUBE FIBRES - <u>Adarsh Kaniyoor</u> , Thirid S. Gspann, John S. Bulmer, Jeronimo Terrones, Alan H. Windle, James A. Elliott Department of Materials Science and Metallurgy, University of Cambridge, United Kingdom; ak2011@cam.ac.uk

B.38	THERMAL AND ELECTRICAL CHARACTERIZATION OF FLEXIBLE CONDUCTING FILMS BASED ON THIN GRAPHITE NANOBELTS - <u>Stanislav Moshkalev</u> ¹ , Alfredo Vaz ¹ , Mara Canesqui ¹ , Andrei Alaferdov ¹ , Celso Canesqui ¹ , Geraldo Trindade ² , Ueverson Lima ² , Antonio Sergio Souza ² ¹ UNICAMP, Brazil; ² Nacional de Grafite Ltda, Brazil; stanisla@unicamp.br
B.39	TIP-ENHANCED RAMAN SPECTROSCOPY CHARACTERIZATION AND NANOMANIPULATION OF GRAPHENE SAMPLES - <u>Cassiano Rabelo</u> ¹ , Thiago L. Vasconcelos ² , Luiz Gustavo Cançado ³ , Emil Sandoz-Rosado ⁴ , Ado Jorio ^{1,3} ¹ Programa de Pós-Graduação em Engenharia Elétrica, Univ. Federal de Minas Gerais, Belo Horizonte, MG, 31270-901, Brazil; ² Divisão de Metrologia de Materiais, Instituto Nacional de Metrologia, Qualidade e Tecnologia (INMETRO), Duque de Caxias, RJ 25250-020, Brazil; ³ Departamento de Física, Univ. Federal de Minas Gerais, Belo Horizonte, MG 31270-901, Brazil; ⁴ U.S. Army Research Laboratory, Aberdeen Proving Ground, 4600 Deer Creek Loop, Aberdeen, Maryland 21005, United States; cassianorabelo@ufmg.br
B.40	TUNING CARBON NANOTUBE PROPERTIES BY MOLECULAR FILLING - <u>Wim Wenseleers</u> ¹ , Jochen Campo ^{1,3} , Sofie Cambré ¹ , Bea Botka ¹ , Wouter Van Werveke ¹ , Xueadan Ma ² , Stephen K. Doorn ² , Han Htoon ² , Jan Obrzut ³ , Jeffrey A. Fagan ³ ¹ University of Antwerp, Physics Department, Antwerp, Belgium; ² Los Alamos National Laboratory (LANL), Materials Physics and Applications, Center for Integrated Nanotechnologies (MPA-CINT), Los Alamos, New Mexico, USA; ³ National Institute of Standards and Technology (NIST), Materials Science and Engineering Division, Gaithersburg, Maryland, USA; Wim.Wenseleers@uantwerp.be
B.41	TUNING THE NONLINEAR RESPONSE OF (6,5)-ENRICHED SINGLE-WALL CARBON NANOTUBES DISPERSIONS USING THE Z-SCAN TECHNIQUE WITH HIGH REPETITION RATE LASER - Odón S. Aréstegui ¹ , Elaine Cristina Silva ¹ , André Luís Baggio ¹ , Rafael Nunes Gontijo ² , Cristiano Fantini Leite ² , Jandir Miguel Hickmann ³ , Marcio André Alencar ⁴ , <u>Eduardo Jorge Fonseca</u> ¹ ¹ Universidade Federal de Alagoas, Brazil; ² Universidade Federal de Minas Gerais, Brazil; ³ Universidade Federal do Rio Grande do Sul, Brazil; ⁴ Universidade Federal de Sergipe, Brazil; eduardo@fis.ufal.br
B.42	VALIDATION OF RAMAN SPECTROSCOPY FOR M- OR S-SWCNT% EVALUATION BY USING ELECTRON DIFFRACTION AS A MEANS - <u>Ying tian</u> , hua jiang, esko kauppinen Department of Applied Physics, aalto university, Finland; ying.tian@aal to.fi

Poster Session C

THEORY AND SIMULATION - VAN DER WAALS HETEROSTRUCTURES -
NON-CARBON MATERIALS

WEDNESDAY, 28/JUN/2017

Location: **CAD 1(UFMG) – Lobby**

Time: **4:30pm - 6:00pm**

Poster number	Presentation
C.1	AN AB INITIO INVESTIGATION OF BI2SE3 TOPOLOGICAL INSULATOR DEPOSITED ON AMORPHOUS SiO2 - <u>Igor S. S. de Oliveira</u> ¹ , Wanderla L. Scopel ² , Roberto H. Miwa ³ ¹ Universidade Federal de Lavras, Brazil; ² Universidade Federal do Espírito Santo, Brazil; ³ Universidade Federal de Uberlândia, Brazil; igor.oliveira@dfi.ufla.br

C.2	ANOMALOUS TRANSMISSION OF LIGHT BELOW PLASMON FREQUENCY IN WEYL SEMIMETAL - <u>Muhammad Shoufie Ukhtary</u> , Ahmad. R. T. Nugraha, Riichiro Saito Tohoku University, Japan; shoufie@flex.phys.tohoku.ac.jp
C.3	BANDSTRUCTURE AND CONTACT RESISTANCE OF CARBON NANOTUBES DEFORMED BY THE METAL CONTACT - <u>Vasili Perebeinos</u> ¹ , Roohollah Hafizi ^{1,2} , Jerry Tersoff ³ ¹ Skoltech, Russia; ² Isfahan University of Technology, Iran; ³ IBM T.J. Watson Research Center, USA; v.perebeinos@skoltech.ru
C.4	CHIRAL PHONON MODES IN THE FIRST ORDER RAMAN SPECTRA FOR TRANSITION METAL DICHALCOGENIDES AND STRAIN-INDUCED GRAPHENE - <u>Yuki Tatsumi</u> , Riichiro Saito Tohoku University, Japan; tatsumi@flex.phys.tohoku.ac.jp
C.5	COMMENSURABILITY EFFECT ON THE ELECTRONIC STRUCTURE OF CARBON NANOSTRUCTURES: IMPACT ON SUPERCELL CALCULATIONS IN NANOTUBES AND 2D MATERIALS - Claudia Rocha ¹ , Alexandre Rocha ² , Mauro Ferreira ¹ , <u>Pedro Venezuela</u> ³ ¹ Trinity College Dublin, Ireland; ² Universidade Estadual Paulista, Brazil; ³ Universidade Federal Fluminense, Brazil; pedro.venezuela@gmail.com
C.6	Withdraw
C.7	EFFECT OF CATALYTIC NANOPARTICLES ON SWNT GROWTH MECHANISMS - <u>Hakim Amara</u> ¹ , Juan-Manuel Aguiar-Hualde ¹ , Yann Magnin ² , Christophe Bichara ² ¹ ONERA/CNRS, France; ² Aix Marseille University, / CNRS, France; hakim.amara@onera.fr
C.8	EFFECTS OF OXYGEN CONTAMINATION ON MONOLAYER GeSe: A COMPUTATIONAL STUDY - Igor Saulo Santos de Oliveira, <u>Raphael Longuinhos Monteiro Lobato</u> Universidade Federal de Lavras, Brazil; raphael.lobato@dfi.ufla.br
C.9	ENERGY BARRIER FOR CARBON NANOTUBE COLLAPSE - <u>Rafael Rodrigues Del Grande</u> , Rodrigo Barbosa Capaz Universidade Federal do Rio de Janeiro, Brazil; rafaelgrande@gmail.com
C.10	EXCITONS AND THE OPTICAL PROPERTIES OF CARBON NANOTUBES - Bruno Vieira, <u>Eduardo Barros</u> Universidade Federal do Ceara, Brazil; ebarros@fisica.ufc.br
C.11	FIRST PRINCIPLES STUDY OF TiO ₂ GRAPHENE NANORIBBONS AS CHEMICAL SENSORS - <u>Stefanie Camile Schwarz</u> , Mariana Zancan Tonel, Solange Binotto Fagan UNIFRA, Brazil; stefanie_camile@yahoo.com.br
C.12	GROWTH MODES AND CHIRAL SELECTIVITY OF SWNTs - Yann Magnin ¹ , Juan-Manuel Aguiar-Hualde ² , Hakim Amara ² , <u>Christophe Bichara</u> ¹ ¹ CNRS and Aix Marseille Univ., CINaM, Marseille, France; ² LEM, ONERA and CNRS, Chatillon, France; bichara@cinam.univ-mrs.fr
C.13	INFLUENCE OF THE POSITION ON THE ELECTRONIC PROPERTIES CAUSED BY THE FUNCTIONALIZATION OF THE GRAPHENE - <u>Mariana Zancan Tonel</u> , Solange Binotto Fagan Centro Universitário Franciscano, Santa Maria RS, Brazil; marianazonel@gmail.com

C.14	<p>INTERACTIONS OF SELF-ASSEMBLED ORGANIC SYSTEMS WITH TWO-DIMENSIONAL MATERIALS: A FIRST-PRINCIPLES APPROACH - Genilson M. Carvalho^{1,2}, <u>Matheus J. S. Matos</u>², Karolline A. S. Araujo³, Luiz A. Cury⁴, Thales F. D. Fernandes⁴, Luiz G. Cancado⁴, Bernardo R. A. Neves⁴</p> <p>¹Instituto Federal Catarinense - Campus São Bento do Sul, Brazil; ²Dept. of Physics – Universidade Federal de Ouro Preto, Brazil; ³Instituto Federal de Minas Gerais – Ponte Nova – Brazil; ⁴Dept. of Physics – Universidade Federal de Minas Gerais – Belo Horizonte – Brazil; matheusmatos@iceb.ufop.br</p>
C.15	Withdraw
C.16	<p>ISOCYANIDES INTERACTING WITH PRISTINE AND MONOVACANCY CARBON NANOTUBES VIA AB INITIO COMPUTER SIMULATION - <u>Patrícia Viera de Oliveira</u>, Solange Binotto Fagan, Cristiano Bohn Rhoden</p> <p>Centro Universitário Franciscano, Brazil; patiolivera@yahoo.com.br</p>
C.17	<p>M BIS-DITHIOLENE (M=Ni, Pt) A TOPOLOGICAL INSULATOR ORGANOMETALLIC FRAMEWORK - <u>Felipe David Crasto de Lima</u>, Roberto Hiroki Miwa</p> <p>Federal University of Uberlândia, Brazil; felipe.lima@ufu.br</p>
C.18	<p>MAGNETIC STATES OF LINEAR DEFECTS IN GRAPHENE MONOLAYERS: EFFECTS OF STRAIN AND INTERACTION - <u>Simone Silva Alexandre</u>, Ricardo Wagner Nunes</p> <p>Federal University of Minas Gerais, Brazil; salexandre23@gmail.com</p>
C.19	<p>METHOTREXATE INTERACTING WITH PRISTINE AND CARBOXYLATED FULLERENES: AN AB INITIO SIMULATION - <u>Laura Vendrame</u>¹, Ivana Zanella², Solange Fagan³</p> <p>¹UNIFRA, Brazil; ²UNIFRA, Brazil; ³UNIFRA, Brazil; laura.o.vendrame@gmail.com</p>
C.20	<p>MICROSCOPIC MECHANISMS OF THE FERMI VELOCITY REDUCTION IN TWISTED BILAYER GRAPHENE FROM THE BAND UNFOLDING METHOD - <u>Yu-ichiro Matsushita</u></p> <p>The University of Tokyo, Japan; matsushita@ap.t.u-tokyo.ac.jp</p>
C.21	<p>NOVEL III-TE-GRAPHENE VAN DER WAALS HETEROJUNCTIONS FOR OPTOELECTRONIC DEVICES - <u>Jimena Anahí Olmos-Asar</u>¹, Cedric Rocha Leão¹, Adalberto Fazzio^{1,2}</p> <p>¹Universidade Federal do ABC (UFABC), Brazil; ²Universidade de São Paulo (USP), Brazil; olmos.asar@ufabc.edu.br</p>
C.22	<p>PHONON SWITCH BY ULTRAFAST LASER PULSE TRAIN IN CARBON NANOTUBES AND GRAPHENE NANORIBBONS - <u>Ahmad R. T. Nugraha</u>¹, Eddwi H. Hasdeo², Riichiro Saito¹</p> <p>¹Department of Physics, Tohoku University, Japan; ²Institute of High Performance Computing, A*STAR, Singapore; nugraha@flex.phys.tohoku.ac.jp</p>
C.23	<p>ROLE OF THE SULFUR IN THE ONSET OF CNT GROWTH: A REACTIVE MOLECULAR DYNAMICS STUDY - <u>Tibor Hóltzl</u>¹, Balázs Orbán², András Olasz¹, Tamás Kárpáti¹, Erik Neyts³, Tamás Veszprémi²</p> <p>¹Furukawa Electric Institute of Technology, Hungary; ²Budapest University of Technology and Economics, Hungary; ³University of Antwerp, Belgium; t.holtzl@feti.hu</p>
C.24	<p>SIMULATION OF TIP-DEPENDENCE IN NEAR-FIELD RAMAN SCATTERING OF SPATIAL CORRELATED PHONONS IN GRAPHENE SAMPLE - <u>Aroldo Ribeiro Neto</u>, Luiz Gustavo Cançado, Ado Jorio</p> <p>Federal University of Minas Gerais, Brazil; aroldoribeiro@ufmg.br</p>

C.25	STRUCTURAL, ELECTRONIC AND MAGNETIC PROPERTIES OF TRANSITION METALS ON InAs (110) AND (001): AN AB INITIO STUDY - <u>Dominike Pacine de Andrade</u> ¹ , Roberto Hiroki Miwa ² ¹ Instituto Federal de Goiás - Campus Jataí, Brazil; ² Universidade Federal de Uberlândia, Brazil; dominike.deus@ifg.edu.br
C.26	THEORETICAL STUDY OF GRAPHENE GROWTH ON Ni ₂ C / Ni(111) SURFACE CARBIDE - Rafael Martinez-Gordillo ¹ , Céline Varvenne ¹ , Hakim Amara ² , <u>Christophe Bichara</u> ¹ ¹ CNRS and Aix Marseille Univ., CINaM, Marseille, France; ² LEM, ONERA and CNRS, Chatillon, France; bichara@cinam.univ-mrs.fr
C.27	ULTRA-WEAK INTERLAYER COUPLING IN TWO-DIMENSIONAL GALLIUM SELENIDE - <u>Raphael Longuinhos Monteiro Lobato</u> , Jenaina Ribeiro Soares Universidade Federal de Lavras, Brazil; raphael.lobato@dfi.ufla.br
C.28	TWO-DIMENSIONAL MATERIALS WITH LOW SYMMETRY: OPTICAL ANISOTROPY AND RAMAN ENHANCEMENT - <u>Lianming Tong</u> , Jin Zhang Peking University, China, People's Republic of; tonglm@pku.edu.cn
C.29	SYNTHESIS OF SILVER NANOWIRES FOR APPLICATION IN FLEXIBLE AND TRANSPARENT ELECTRODES - Felipe Soares ¹ , Sidney Lorenço ² , <u>Carlos Eduardo Cava</u> ² ¹ Department of Physics, State University of Londrina, CP6001, 86051-990 Londrina, PR, Brazil; ² Department of Materials Science and Engineering, Technological Federal University of Paraná (UTFPR), 86036-370, Londrina, PR, Brazil.; carloscava@utfpr.edu.br
C.30	SLATER-KOSTER TIGHT-BINDING PARAMETRIZATION OF SINGLE AND FEW-LAYER BLACK-PHOSPHORUS FROM FIRST-PRINCIPLES CALCULATIONS - <u>Marcos G. Menezes</u> , Rodrigo B. Capaz Universidade Federal do Rio de Janeiro, Brazil; marcosgm@if.ufrj.br
C.31	RAMAN SPECTROSCOPY IN BLACK PHOSPHORUS EDGES - <u>Henrique B. Ribeiro</u> ¹ , César E. P. Villegas ^{2,3} , Dario A. Bahamon ¹ , Diego Muraca ⁴ , Antonio Hélio de Castro Neto ⁵ , Eunézio A. T. de Souza ¹ , Alexandre R. Rocha ³ , Marcos A. Pimenta ⁶ ¹ MackGraphe-Graphene and Nanomaterials Research Center, Mackenzie Presbyterian University, 01302-907 São Paulo, Brazil; ² Instituto de Física Teórica, Universidade Estadual Paulista Julio de Mesquita Filho (UNESP), 01140-070 São Paulo, Brazil; ³ Istituto di Struttura della Materia of the National Research Council, Via Salaria Km 29.3, I-00016 Monterotondo Stazione, Italy; ⁴ Instituto de Física Gleb Wataghin (IFGW), Universidade Estadual de Campinas, 13083-970 Campinas, Brazil; ⁵ Centre for Advanced 2D Materials and Graphene Research Centre, National University of Singapore, Singapore 117546, Singapore.; ⁶ Departamento de Física, Universidade Federal de Minas Gerais (UFMG), 30161-970 Belo Horizonte, Brazil.; henfisica@gmail.com
C.32	INVESTIGATION OF THE RESONANCE RAMAN PROPERTIES OF 1T-TaS ₂ AT AMBIENT AND CRYOGENIC CONDITIONS - <u>Sergio Luis Lima de Moraes Ramos</u> ¹ , Ryan Plumadore ² , Geovani Carvalho de Resende ¹ , Bruno Ricardo Carvalho ¹ , Adina Lucian-Mayer ² , Marcos Assunção Pimenta ¹ ¹ Federal University of Minas Gerais (UFMG), Brazil; ² University of Ottawa, Canada; slramos@ctnanotubos.com.br
C.33	Withdraw

C.34	<p>THIRD NON-LINEAR OPTICAL RESPONSE OF 2D-MATERIALS NEAR PHONON RESONANCES - <u>Lucas Lafetá</u>¹, Alisson R. Cadore¹, Thiago G. Mendes Sá¹, Kenji Watanabe², Takashi Tanigushi², Leonardo C. Campos¹, Ado Jorio¹, Leandro M. Malard¹</p> <p>¹Departamento de Física, Universidade Federal de Minas Gerais, Belo Horizonte, MG 31270-901, Brazil; ²National Institute for Materials Science (NIMS) — 1-2-1 Sengen, Tsukuba-city Ibaraki 305-0047 Japan; lucaslafeta.labns@gmail.com</p>
C.35	<p>THERMALLY ACTIVATED HYSTERESIS IN HIGH QUALITY GRAPHENE/hBN DEVICES - <u>Alisson Ronieri Cadore</u>¹, Edrian Mania¹, Kenji Watanabe², Takashi Taniguchi², Rodrigo Gribel Lacerda¹, Leonardo Cristiano Campos¹</p> <p>¹Federal University of Minas Gerais - UFMG, Brazil; ²Advanced Materials Laboratory, National Institute for Materials Science, Japan; alissoncadore@gmail.com</p>
C.36	<p>PHOTO-DOPING AND PHOTO-MEMORY EFFECT IN MoS₂ TRANSISTORS - <u>Andreij de Carvalho Gadêlha</u>¹, T. Taniguchi², K. Watanabe², Rodrigo Gribel Lacerda¹, Leandro Malard Moreira¹, Leonardo Cristiano Campos¹</p> <p>¹UFMG, Brazil; ²National Institute for Materials Science, Japan; andreij@fisica.ufmg.br</p>
C.37	<p>INVESTIGATION OF THE ELECTRONIC PROPERTIES OF A GRAPHENE-TALC HETEROSTRUCTURE - <u>Edrian Mania</u>¹, Ananias B. Alencar¹, Alisson R. Cadore¹, Bruno Carvalho¹, Kenji Watanabe², Takashi Taniguchi², Bernardo R. A. Neves¹, Helio Chacham¹, Leonardo C. Campos¹</p> <p>¹Departamento de Física, Universidade Federal de Minas Gerais, 30123-970 - Belo Horizonte, Minas Gerais, Brazil; ²Advanced Materials Laboratory, National Institute for Materials Science, 1-1 Namiki, 305-0044 - Tsukuba, Japan; edrian.mania1@gmail.com</p>
C.38	<p>HEXAGONAL BORON NITRIDE CRYSTAL STRUCTURE IMAGING BY SECOND HARMONIC GENERATION - <u>Egleidson Frederik do Amaral Gomes</u>¹, Maria Izabel M. Conceição¹, Ana Paula Moreira Barboza², Camilla K. B. Q. M³, Thonimar V. Alencar², Bernardo R. A. Neves¹, Leandro M. Malard¹, Ana Maria de Paula¹</p> <p>¹Universidade Federal de Minas Gerais; ²Universidade Federal de Ouro Preto; ³Universidade Federal do Paraná; egleidsonfrederik@gmail.com</p>
C.39	<p>EPITAXIAL GROWTH OF 1D-2D VAN DER WAALS HETEROSTRUCTURES ON THE SINGLE CARBON NANOTUBE - <u>Boyuan Shen</u>¹, Huanhuan Xie^{1,2}, Zhenxing Zhu^{1,2}, Yunxiang Bai^{1,2}, Fei Wei¹</p> <p>¹Beijing Key Laboratory of Green Chemical Reaction Engineering and Technology, Department of Chemical Engineering, Tsinghua University, Beijing 100084, China.; ²Center for Nano and Micro Mechanics, Tsinghua University, Beijing 100084, China.; sby19921009@sina.com</p>
C.40	<p>ELECTRONIC STRUCTURE CALCULATION OF TWISTED MULTILAYER GRAPHENE - <u>Adriana Vela</u>, Francisco Culchac, Rodrigo Capaz</p> <p>Universidade Federal do Rio de Janeiro, Brazil; alvelap@if.ufrj.br</p>

Poster Session D
SENSORS AND DEVICES - COMPOSITES - ENERGY AND
ENVIRONMENTAL APPLICATIONS

THURSDAY, 29/JUN/2017	
Location: CAD 1(UFMG) – Lobby	
Time: 11:15am - 12:45pm	
Poster number	Presentation
D.1	A MEASUREMENT PLATFORM FOR STUDYING WETTING PHENOMENA AT THE NANOSCALE - Michael Engel ¹ , Peter W. Bryant ¹ , Rodrigo F. Neumann ¹ , <u>Ronaldo Giro</u> ¹ , Claudius Feger ² , Phaedon Avouris ² , Mathias B. Steiner ^{1,2} ¹ IBM Research - Brazil; ² IBM Research - T. J. Watson Research Center; rgiro@br.ibm.com
D.2	APPLICATION OF GRAPHENE DEVICES FOR HYDROGEN SENSORS - <u>Cíntia Lima Pereira</u> , Alisson R. Cadore, Leonardo C. Campos, Rodrigo G. Lacerda Universidade Federal de Minas Gerais, Brazil; cintialpfisica@gmail.com
D.3	CAPACITIVE PRESSURE SENSING WITH SUSPENDED GRAPHENE-POLYMER HETEROSTRUCTURE MEMBRANES - <u>Aravind Vijayaraghavan</u> The University of Manchester, United Kingdom; aravind@manchester.ac.uk
D.4	CARBON NANOTUBE MACRO- AND PRINTED ELECTRONICS - <u>Chongwu Zhou</u> University of Southern California, United States of America; chongwuz@usc.edu
D.5	DEVELOPMENT OF A GRAPHENE-BASED BIOSENSOR, SELECTIVE TO rCV-N PROTEIN - <u>Pedro Rodrigues de Almeida III</u> ^{1,2} , Elmo Salomão Alves ¹ , Andre M. Murad ³ ¹ UFMG, BRAZIL; ² CEFET-MG, BRAZIL; ³ EMBRAPA Genetic Resources and Biotechnology; pedroraiii@yahoo.com.br
D.6	ELECTRICAL STUDIES OF SUSPENDED GRAPHENE MEMBRANES INTEGRATED WITH BURIED MICROFLUIDICS CHANNELS - <u>Leonel Muniz Meireles</u> , Gustavo Arrigh Ferrari, Paulo Alexandre A. Neves, Ive Silvestre, Leonardo Cristiano Campos, Rodrigo Gribel Lacerda UFMG, Brazil; leonel.meireles27@gmail.com
D.7	FORMATION OF THIONINE SELF-ASSEMBLED MONOLAYERS AND BILAYERS OVER GRAPHENE AND ITS EFFECTS IN GRAPHENE DEVICES - <u>Thiago Sousa</u> ¹ , Thales Fernandes ¹ , Matheus Matos ² , Mário Mazzoni ¹ , Bernardo Neves ¹ , Flávio Plentz ¹ ¹ UFMG, Brazil; ² UFOP, Brazil; thiagostephan@gmail.com
D.8	HIGH PERFORMANCE RADIO FREQUENCY TRANSISTORS BASED ON CARBON NANOTUBE NETWORKS - <u>Yang Yang</u> ¹ , Shuai Huo ¹ , Yun Wu ¹ , Jianjun Zhou ¹ , Zhengyi Cao ¹ , Xinxin Yu ¹ , Yuechan Kong ¹ , Tangsheng Chen ¹ , Gehan Amaratunga ² ¹ Nanjing Electronics Device Institute, China, People's Republic of; ² University of Cambridge, UK; yang.yang@cantab.net

D.9	<p>HYDROGEN GAS SENSOR BASED IN MONOLAYER MOLYBDENUM DISULFIDE TRANSISTORS - Natália Pereira Rezende¹, Alisson Ronieri Cadore¹, Andreij de Carvalho Gadelha Gadelha¹, André Santarosa Ferlauto¹, Kenji Watanabe², Takashi Tanigushi², Leonardo Cristiano Campos¹, Rodrigo Gribel Lacerda¹</p> <p>¹Universidade Federal de Minas Gerais, Brazil; ²Advanced Materials Laboratory, National Institute for Materials Science, Tsukuba, Japan; nat.p.rezende@gmail.com</p>
D.10	<p>LARGE, FAST AND REVERSIBLE VISIBLE-LIGHT SWITCHING OF THE CONDUCTIVITY IN SWNT-FET DEVICE DECORATED BY PHOTOACTIVE COMPLEXES - Salome Forel¹, Gurvan Magadur², Fatima Bouanis¹, Shyamal Das³, Aurélie Baron^{3,4}, Christian Herrero², Annamaria Quaranta³, Gérard Delport^{2,5}, Jean-Sébastien Lauret^{2,5}, Boris Vauzeilles^{2,4}, Vincent Huc¹, Marie Sircoglou², Winfried Leibl³, Costel-Sorin Cojocaru¹, Talal Mallah², Ally Aukauloo^{2,3}</p> <p>¹Ecole Polytechnique, France; ²Univ. Paris Sud, France; ³CEA Saclay, France; ⁴Institut de Chimie des Substances Naturelles du CNRS, France; ⁵ENS Cachan, France; salome.forel@polytechnique.edu</p>
D.11	<p>MODELING OF FLEXIBLE CARBON NANOTUBE THIN-FILM TRANSISTORS - Taiga Kashima, Tomoki Matsuura, Jun Hirotsu, Shigeru Kishimoto, Yutaka Ohno Nagoya University, Japan; yohno@nagoya-u.jp</p>
D.12	<p>REMOTE ORGANIZATION OF CARBON NANOTUBES BY MEANS OF AZOPOLYMERS TO CREATE HYBRID MATERIALS - Maria Gabriela Capeluto¹, Marcos Daniel Vozer Felisberto², Silvia Goyanes³, Silvia Ledesma¹</p> <p>¹Laboratório de Procesado de Imágenes, Departamento de Física, FCEyN, UBA and IFIBA, CONICET, Pabellón 1, Ciudad Universitaria 1428, Buenos Aires, Argentina; ²CTNano - Centro de Tecnologia em Nanomateriais, Belo Horizonte, Minas Gerais, Brazil; ³Laboratório de Polímeros y Materiales Compuestos - Departamento de Física, FCEyN, Universidad de Buenos Aires, Pabellón 1, Ciudad Universitaria 1428, Buenos Aires, Argentina; felisberto@ctnanotubos.com.br</p>
D.13	<p>TEMPERATURE-DEPENDENT CHARGE TRANSPORT IN SEMICONDUCTING SWCNT-NETWORKS WITH DIFFERENT DIAMETERS - Maximilian Brohmann, Stefan P. Schießl, Marcel Rother, Jana Zaumseil</p> <p>Institute for Physical Chemistry, Universität Heidelberg, D-69120 Heidelberg, Germany; maximilian.brohmann@pci.uni-heidelberg.de</p>
D.14	<p>THE DOPING EFFECT ON SELF-ASSEMBLED FILMS OF POLYANILINE AND CARBON NANOTUBE APPLIED AS AMMONIA GAS SENSOR - Marcelo Eising², Carlos Eduardo Cava³, Aldo José Gorgatti Zarkin⁴, Rodrigo Villegas Salvatierra⁴, Lucimara Stolz Roman¹</p> <p>¹Department of Physics, UFPR, Brazil; ²PIPE, UFPR, Curitiba, Brazil; ³Department of Materials Science and Engineering, UTFPR, Londrina, PR, Brazil.; ⁴Department of Chemistry, UFPR, Curitiba, PR, Brazil.; LSROMAN@FISICA.UFPR.BR</p>
D.15	<p>UNDERSTANDING THE ELECTRONIC PROPERTIES OF NITROGEN DOPED SINGLE WALLED CARBON NANOTUBES NETWORKS - Filippo Fedi^{1,2}, Oleg Domanov¹, Carlos Reinoso¹, Thomas Pichler¹</p> <p>¹University of Vienna, Electronic Properties of Materials, Faculty of Physics, Vienna; ²University of Vienna, Faculty of Physics & VDSP, Boltzmanngasse 5, 1090 Vienna; filippo.fedi@univie.ac.at</p>

D.16	VERTICAL CHARGE TRANSPORT IN PRINTED NETWORKS OF SEMICONDUCTING SINGLE-WALLED CARBON NANOTUBES - <u>Marcel Rother</u> , Maximilian Brohmann, Jana Zaumseil Institute for Physical Chemistry, Universität Heidelberg, Heidelberg D-69120, Germany; marcel.rother@pci.uni-heidelberg.de
D.17	ATTENUATION PROPERTIES OF PVDF/MWCNT AND METAL OXIDES NANOCOMPOSITES FOR LOW ENERGY X-RAYS - Esther Lorryne Machado Pereira ¹ , <u>Adriana de Souza Medeiros Batista</u> ² , Fabíola A. S. Ribeiro ³ , Arno Heeren Oliveira ¹ , Adelina P. Santos ³ , Luiz Oliveira de Faria ³ ¹ Departamento de Engenharia Nuclear, Universidade Federal de Minas Gerais, Brazil; ² Departamento de Anatomia e Imagem, Universidade Federal de Minas Gerais, Brazil; ³ Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; adriananuclear@yahoo.com.br
D.18	BIOACTIVE SILVER-CONTAINING NANOCOMPOSITES BASED ON HUMIC SUBSTANCES WITH ANTIOXIDANT ACTIVITY - <u>Spartak Khutsishvili</u> , Nikolay Tikhonov, Marina Lesnichaya, Tamara Vakul'skaya, Galina Aleksandrova, Boris Sukhov A.E.Favorsky Irkutsk Institute of Chemistry SB RAS, Russian Federation; khutsishvili_sp@yahoo.com
D.19	BORON NITRIDE NANOTUBES: TOWARDS THERMOCONDUCTIVE, ELECTRICALLY INSULATING COMPOSITES WITH MULTI-FUNCTIONAL PROPERTIES - <u>Diego Pedrazzoli</u> , Kevin Jordan, Thomas Dushatinsky, Roy Whitney BNNT, LLC, United States of America; dpedrazzoli@bnnt.com
D.20	CHITOSAN-BASED TERNARY NANOCOMPOSITES REINFORCED WITH MWCNT AND CNC - <u>Sandra Aparecida Alexandre</u> , Fabiano Vargas Pereira Pereira, Rodrigo Lassarote Lavall Universidade Federal de Minas Gerais, Brazil; salexandre2007@gmail.com
D.21	Co/MWCNT HYBRID NANOMATERIALS: SYNTHESIS, CHARACTERIZATION AND APPLICATIONS - <u>Mariya Kazakova</u> ^{1,2} , Andrey Andreev ² , Alexander Selyutin ² , Arcady Ischenko ^{1,2} , Vladimir Kuznetsov ^{1,2} ¹ Novosibirsk State University, Russian Federation; ² Borisev Institute of Catalysis SB RAS, Russian Federation; manj86@mail.ru
D.22	COMPARATIVE EVALUATION OF GO AND rGO INTERACTION WITH POLYMER MATRIX IN PVDF-BASED NANOCOMPOSITES - Liliane Silva ¹ , <u>Adriana de Souza Medeiros Batista</u> ² , Jefferson P. Nascimento ³ , Cláscidia Aparecida Furtado ³ , Luiz Oliveira de Faria ³ ¹ Departamento de Engenharia Nuclear, Universidade Federal de Minas Gerais, Brazil; ² Departamento de Anatomia e Imagem, Universidade Federal de Minas Gerais, Brazil; ³ Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; adriananuclear@yahoo.com.br
D.23	DISPERSION OF GRAPHENE OXIDE IN LIQUID SODIUM SILICATE BY MEANS OF HIGH-SHEAR DISPERSION - <u>Tiago Serodre</u> ¹ , Jefferson Patricio Nascimento ¹ , Valdirene Gonzaga Resende ² , Flávio de Castro Dutra ² , Adelina Pinheiro Santos ¹ , Cláscidia Aparecida Furtado ¹ ¹ CDTN, Brazil; ² Vale S.A.; tserodre@outlook.com
D.24	DOPING OF HYBRID CARBON NANOTUBE – GRAPHENE FIBERS - <u>Sandra Lepak</u> ¹ , Łucja Dybowska-Sarapuk ^{1,2} , Iwona Józwick ² , Małgorzata Jakubowska ^{1,2} , Tomasz Gizewski ³ , Krzysztof Koziol ⁴ , Agnieszka Lekawa-Raus ¹ ¹ Warsaw University of Technology, Poland; ² Institute of Electronic Materials Technology, Poland; ³ Lublin University of Technology, Poland; ⁴ Pembroke College, Cambridge, England; lepak@mchtr.pw.edu.pl

D.25	EFFECT OF NANOCARBONS ADDITION ON CONTINUOUS CASTING ALUMINA-CARBON REFRACTORIES TUBES - <u>Carla Aparecida de Resende</u> ¹ , Clascídia Aparecida Furtado ² , Paula Regina Dutra ¹ , Norval Rodrigues de Oliveira Junior ¹ , Thales André Lopes Cunha ² , Fabíola A.S. Ribeiro ² , Aloyso de Oliveira Figueiredo Junior ¹ , Adelina Pinheiro Santos ² ¹ Magnesita Refratários S A; ² Nuclear Technology Development Center; carla.resende@magnesita.com
D.26	EFFECT OF THE ADDITION OF CARBON NANOTUBES ON ALUMINA-CARBON REFRACTORY COMPOSITES - <u>Paula Regina Dutra</u> ¹ , Pedro Augusto Silva ² , Clascídia Aparecida Furtado ² , Norval Rodrigues de Oliveira Junior ¹ , Carla Aparecida de Resende ¹ , Adelina Pinheiro Santos ² ¹ Magnesita Refratários S A; ² Nuclear Technology Development Center; paula.dutra@magnesita.com
D.27	FABRICATION OF GRAPHENE AND ZnO COMPOSITE BY CHEMICAL SOLUTION DEPOSITION - <u>Kouichi Akahane</u> ¹ , Akira Togawa ² , Hideyuki Sotobayashi ² , Naokatsu Yamamoto ¹ ¹ National Institute of Information and Communications Technology, Japan; ² Aoyama Gakuin University; akahane@nict.go.jp
D.28	LAYERED CARBON NANOTUBE SILVER ELECTRICAL CONDUCTORS - <u>Łucja Dybowska-Sarapuk</u> ^{1,2} , Jakub Krzemiński ¹ , Sandra Lepak ¹ , Małgorzata Jakubowska ^{1,2} , Agnieszka Łękawa-Raus ¹ ¹ Warsaw University of Technology, Faculty of Mechatronics, Poland; ² Institute of Electronic Materials Technology, Poland; l.dybowska@mchtr.pw.edu.pl
D.29	MAGNETIC, ELECTRONIC AND STRUCTURAL PROPERTIES OF NICKEL(II) ACETYLACETONATE TRIMERS ARRANGED IN SINGLE-WALL CARBON NANOTUBES - <u>Oleg Domanov</u> ¹ , Markus Sauer ¹ , Michael Eisterer ² , Takashi Saito ³ , Herwig Peterlik ¹ , Eugen Weschke ⁴ , Thomas Pichler ¹ , H. Shiozawa ¹ ¹ University of Vienna, Austria; ² Institute of Atomic and Subatomic Physics, Austria; ³ National Institute of Advanced Industrial Science and Technology (AIST), Japan; ⁴ Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany; oleg.domanov@univie.ac.at
D.30	MONITORING THE EFFECT OF CARBON NANOTUBES CONCENTRATION ANCHORED ON GOLD NANOPARTICLES FILMS FOR FUTURE USES IN LSPR OPTICAL DEVICES - <u>Karinna Meinol</u> , Marcela Mohallem Oliveira Technological Federal University of Parana, Brazil; kmeinol@alunos.utfpr.edu.br
D.31	NANOCARBONS INTRODUCED IN REFRACTORY CASTABLE: EFFECTS ON RHEOLOGY AND HIGH TEMPERATURE PROPERTIES - Norval Rodrigues Oliveira Junior ^{1,2} , Fabíola A. S. Ribeiro ¹ , <u>Paula Regina Dutra</u> ^{1,2} , Modestino A. M. Brito ² , Manoel R. F. Fernandes ² , Clascídia A. Furtado ¹ , Gustavo C. Salles ¹ , Adelina P. Santos ¹ ¹ CDTN, Brazil; ² Magnesita Refratários S.A.; paula.dutra@magnesita.com
D.32	NANOSCALE TO SUBMICRON GROWN OF Cu PARTICLES ON REDUCED GRAPHENE OXIDE - <u>Daniel Andrada Maria</u> ^{1,2} , Clascídia A Furtado ¹ , Adelina Pinheiro Santos ¹ ¹ CDTN, Brazil; ² UNIFEI, Brazil; dam@unifei.edu.br
D.33	NICKEL/IRON– SINGLE WALLED CARBON NANOTUBE METAL MATRIX COMPOSITE VIA CARBONYL VAPOR DEPOSITION - <u>Gadhadar Changalaraya Reddy</u> NoPo Nanotechnologies (I) Private Limited, India; gadhadar@nopo.in

D.34	Withdraw
D.35	<p>PIPE LINE REPAIRS WITH STEEL SHEETS BONDED WITH EPOXY ADHESIVE MODIFIED WITH CARBON NANOTUBES AND GRAPHENE - <u>Ramon Macário Da Silva</u>¹, Eduardo Martins Sampaio¹, Felipe Luiz Queiroz Ferreira², Glaura Goulart²</p> <p>¹Rio de Janeiro State University, Brazil; ²Centro de Tecnologia em Nanotubos de Carbono (CTNanotubos), Brazil; ramonmacario@hotmail.com</p>
D.36	<p>POLYMER COMPOSITES WITH CARBON NANOTUBES OF DIFFERENT LENGTH AND DIAMETER - <u>Dmitry V. Krasnikov</u>^{1,2}, Sergei I. Moseenkov², Vladimir L. Kuznetsov^{1,2}, Valentin I. Suslyayev⁴, Eugene Yu. Korovin⁴, Anatoly I. Romanenko³, Ieva Kranauskaite⁵, Mariya A. Kazakova^{1,2}, Jan Macutkevici⁵, Juras Banyas⁵</p> <p>¹Novosibirsk State University, Russian Federation; ²Boreskov Institute of Catalysis, Novosibirsk, Russia; ³Nikolaev Institute of Inorganic chemistry Novosibirsk, Russia; ⁴National Tomsk State University, Tomsk, Russia; ⁵Vilnius University, Vilnius, Lithuania; krasnikovdmitry@gmail.com</p>
D.37	<p>POST-SYNTHESIS ALIGNMENT IN CNT NETWORKS SUPPORTED BY POLYMER INFILTRATION - <u>Angelika Marianne Beinert</u>, Thuid Susanne Gspann, Patrick Jerome Kiley, Jeronimo Terrones Portas, Alan H Windle, James Arthur Elliott</p> <p>University of Cambridge, United Kingdom; amb261@cam.ac.uk</p>
D.38	<p>PRINTING OF HIGHLY CONDUCTIVE FLEXIBLE WIRES BASED ON GRAPHENE AND CARBON NANOTUBES - <u>Daniel Janczak</u>¹, Sandra Lepak¹, Łucja Dybowska-Sarapuk^{1,2}, Tomasz Giżewski³, Małgorzata Jakubowska^{1,2}, Agnieszka Lekawa-Raus¹</p> <p>¹Warsaw University of Technology, Poland; ²Institute of Electronic Materials Technology, Poland; ³Lublin University of Technology, Poland; dan.janczak@gmail.com</p>
D.39	<p>RADIATION EFFECT IN GRAPHENE BASED COATINGS AND NANOCOMPOSITES - <u>Regina Duque Estrada Carvalho</u>, Renata Humphreis Carvalho, Max Passos Ferreira, Adelina Pinheiro Santos, Clascidia Aparecida Furtado</p> <p>Centro de Desenvolvimento de Tecnologia Nuclear, Brazil; rdec.cdt@gmail.com</p>
D.40	<p>SWCNTS AS A UNIVERSAL CONDUCTIVE AND REINFORCING ADDITIVE IN POLYMERS - Evgeniy Ilin, <u>Alexander Bezrodny</u>, Mikhail Predtechenskiy</p> <p>OCSiAl Group, Russian Federation; bezrodny.ae@ocsial.com</p>
D.41	<p>APPLICATION OF CARBON NANOTUBE ELECTRODES IN PEROVSKITE SOLAR CELLS - Il Jeon¹, E. Kauppinen², Yutaka Matsuo^{1,3}, <u>Shigeo Maruyama</u>^{1,4}</p> <p>¹The University of Tokyo; ²Aalto University School of Science; ³University of Science and Technology of China; ⁴National Institute of Advanced Industrial Science and Technology; maruyama@photon.t.u-tokyo.ac.jp</p>
D.42	<p>CARBON NANOTUBE-BASED ELECTROCATALYST FOR OXYGEN REDUCTION REACTION - Jincheng Li, P. Hou, <u>Chang Liu</u>, Hui-Ming Cheng</p> <p>Institute of Metal Research, CAS, China, People's Republic of; cliu@imr.ac.cn</p>
D.43	<p>DEGRADING AND SENSING PESTICIDES WITH CARBON NANOSTRUCTURE-BASED NANOCATALYSTS - <u>Elisa S. Orth</u>, Leandro Hostert, Jéssica E. S. Fonsaca, Sirlon F. Blaskiewicz, Aldo J. G. Zarbin</p> <p>Universidade Federal do Paraná, Brazil; elisaorth@gmail.com</p>

D.44	<p>GRAPHENE ONTO POLYDIMETHYLSILOXANE AS A COMPOSITE MEMBRANE FOR GAS BARRIER APPLICATIONS - <u>Mariana O Paraense</u>¹, Thiago H R da Cunha^{2,3}, Andre S Ferlauto^{2,3}, Katia C S Figueiredo¹</p> <p>¹Department of Chemical Engineering, UFMG, Brazil; ²Physics Department, UFMG, Brazil; ³CTNanotubos, UFMG, Brazil; mariparaense@yahoo.com.br</p>
D.45	<p>GRAPHENE PAPER-LIKE FOR LITHIUM ION BATTERIES - <u>Fernanda Vieira</u>¹, Regina Duque Estrada Carvalho¹, Daniel Cunha Elias², Vanessa Luciane Oliveira¹, Adelina Pinheiro Santos¹, Clascídia Aparecida Furtado¹</p> <p>¹Centro de Desenvolvimento da Tecnologia Nuclear, Brazil; ²Departamento de Fisica, ICEX, UFMG; ferveira2001@gmail.com</p>
D.46	<p>INITIAL STRESS MEASUREMENT OF ULTRALONG CARBON NANOTUBES - <u>Yunxiang Bai</u>^{1,2}, Zhenxing Zhu^{1,2}, Huanhuan Xie^{1,2}, Boyuan Shen¹, Fei Wei^{1,2}</p> <p>¹Beijing Key Laboratory of Green Chemical Reaction Engineering and Technology, Tsinghua University, Beijing, 100084, China.; ²Center for Nano and Micro Mechanics, Tsinghua University, Beijing, 100084, China.; baiyunxiang0101@163.com</p>
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Oliveira, Sérgio	PS A:7		Rezende Calado, Hállen Daniel PS A:39
Oliveira, Vanessa Luciane	PS D:45		Rezende, Natália Pereira PS D:9
Olmos-Asar, Jimena Anahí	PS C:21		Rhoden, Cristiano Rodrigo Bohn PS A:4, PS A:2
Orbán, Balázs	PS C:23		Ribeiro Neto, Aroldo PS C:24
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Orozco, Francisco	PS B:28		Ribeiro, Henrique B. PS B:33, PS C:31
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Pacheco, Flávia Gonçalves	PS A:22		Righi, Ariete PS B:33, Oral-10, PS B:28
Paillet, Matthieu	PS B:17		Robinson, Jason PS B:28
Palmeri, John	Oral-16		Rocha Leão, Cedric PS C:21
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Paraense, Mariana O	PS D:44		Rochal, Sergei PS B:17
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Park, Yeonsang	Oral-20		Roh, Young-Geun Oral-20
Parret, Romain	PS B:17		Rohringer, Philip PS B:24
Paula, Ana Maria de	PS C:38		Roman, Lucimara Stolz PS D:14
Paulus, Beate	Inv-6		Romanenko, Anatoly I. PS A:10, PS D:36
Pedrazzoli, Diego	PS D:19		Rosentsveig, Rita Oral-18
Peixoto, Carolina da Silva	PS A:26		Rother, Marcel PS D:16, PS D:13
Peng, Lianmao	PS A:17		Roy, Debdulal Oral-12
Perebeinos, Vasili	PS C:3		Rozhkova, Natalia PS B:34
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Pereira, Esther Lorryayne M	PS D:17		Saito, Riichiro Oral-9, PS B:30, PS B:33, PS C:4, PS C:22, PS C:2
Pereira, Fabiano Vargas P	PS D:20		
Pereira, Neuma das Mercês	PS B:7		
Peres, Isabela Costa Mendes	PS D:50		
Peterlik, Herwig	PS D:29		
Picaud, Fabien	Oral-16		
Picher, Matthieu	PS A:23		
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Salles, Gustavo C.	PS D:31	Souto, Hugo Campos	PS B:36
Salvatierra, Rodrigo Villegas	PS D:14	Souza Filho, Antônio Gomes	PS A:27, PS
Sampaio, Eduardo Martins	PS D:35	B:26, PS B:27	
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Sandoz-Rosado, Emil	PS B:39	B:38	
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Santos, Diego Silva	PS B:3	Strano, Michael S	Oral-10
Santos, Hernan	Oral-8	Suh, Dongseok	PS B:9
Santos, T. M. O.	PS B:10	Sukhov, Boris	PS D:18
Sato, Kentaro	PS B:33	Sun, Zhipei	Inv-12
Sato, Naomichi	PS B:30	Suslyaev, Valentin I.	PS A:10, PS
Sauer, Markus	PS D:29	D:36	
Saulo Santos de Oliveira, Igor	PS C:8		
Sauvajol, Jean-Louis	PS B:17	Tahir, Saïd	Oral-16
Savu, Raluca	PS B:34	Tanaka, Shin-ichiro	PS B:13
Scalia, Giusy	PS B:9	Tang, Nathalie	PS B:25
Schießl, Stefan P.	PS D:13	Taniguchi, Takashi	PS C:36, PS
Schmidt, Tome M.	PS A:33	C:35, PS C:37, PS C:34, PS D:9	
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Schwarz, Stefanie Camile	PS C:11	Tehuacanero Cuapa, Samuel	PS A:38
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Scopel, Wanderla L.	PS C:1	A:24	
Selyutin, Alexander	PS D:21	Terrones Portas, Jeronimo	PS D:37, PS
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Silva, Glaura G.	Oral-5, PS	Tonel, Mariana Zancan	PS C:13, PS
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Silva Neto, Eliel Gomes da	PS B:33	Trigueiro, João Paulo Campos	PS B:7
Silva, Pedro Augusto	PS D:26	Trindade, Amanda Teixeira	PS D:50
Silva, Robson	PS B:34	Trindade, Geraldo	PS B:34, PS
Silva, Tháís Chagas Peixoto	PS B:11	B:38	
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Simon, Patrick	PS B:16	Ushiyama, Takuya	Oral-15
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Siria, Alessandro	KN-3	Vajtai, Robert	Oral-5
Skakalova, Viera	Oral-11	Vakul'skaya, Tamara	PS D:18
Soares, Felipe	PS C:29	Van Bezouw, Stein	PS B:8
Soares, Jaqueline S.	PS B:10	Van Werveke, Wouter	PS B:40
Sotobayashi, Hideyuki	PS D:27	Varvenne, Céline	PS C:26
Sousa, Edésia Martins Barros	PS A:36	Vasconcelos, Thiago L.	PS B:39
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Silva, Ramon Macário Da	PS D:35	Vaz, Alfredo	PS B:38
Silva, Vinicius O. da	PS B:15	Vela, Adriana	PS C:40

Vendrame, Laura	PS C:19		
Venezuela, Pedro	PS B:33,	Xiang, Rong	PS A:1
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Vialla, Fabien	Inv-8		
Vieira, Bruno	PS C:10	Yakobson, Boris	Inv-5
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Vieira, Manuel	PS B:21	Yanagi, Kazuhiro	PS B:24
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Vijayaraghavan, Aravind	PS B:22, PS	Yang, Juan	PS B:5
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Villetti, Marco Antonio	PS A:14	Yao, Fengrui	PS A:6
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Vozer Felisberto, Marcos Daniel	PS A:16, PS	Yin, Zhe	PS D:54
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Wang, Huimin	PS D:53	Zakri, Cécile	Oral-19
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SATELLITE SYMPOSIA PROGRAM

Location: Convention Center - Engineering School (UFMG)					
FRI June 30	CCTN17 <i>Room 1012</i>	MSIN17 <i>Main auditor.</i>	CNBMT17 <i>Room T005</i>	GSS17 <i>Room 1010</i>	CNTFA17 <i>Room 1014</i>
09:00-09:15	Keynote Hélio Chacham	Keynote Riichiro Saito	Keynote Cyrrill Bussy	Keynote Alain Penicaud	Keynote Shigeo Maruyama
09:15-09:30					
09:30-09:45					
09:45-10:00	Invited D. Hedman	Invited R. Beams	Invited D. Barros	Invited R. Krupke	Invited A. Nasibulin
10:00-10:15					
10:15-10:30	A. T. Fowler	R. N. Gontijo	C. Viana	M. Engel	Zhe Yin
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00-11:15	Invited R. Capaz	Invited P. Araujo	Invited M. Terrones	Invited S. Bericaud	Invited Jing Zhang
11:15-11:30					
11:30-11:45	Invited Y. Ando	Invited B. Flavel	Invited Celso Melo	H. Lipsanen	Invited L. S. Roman
11:45-12:00				J. Soares	
12:00-12:15	P. Venezuela	Vijayaraghavan	D. Martinez	D. Santos	S.Forel
12:15-12:30	Matsushita	T. Pichler	L. Franqui	Carlos Leon	Rong Xiang
12:30-13:45	Lunch	Lunch	Lunch	Lunch	Lunch
14:00-14:15	Invited S. Tretiak	Invited E. Anglaret	Invited Kai Yang	Invited M.Terrones	Invited C.Zhou
14:15-14:30					
14:30-14:45	Lobato	Invited Vasconcelos	Invited L. Gauthier	Invited C. Matos	M. Rother
14:45-15:00	Olmos-Asar				Brohmann
15:00-15:15	DelGrande	Krasnikov	Martins	R.B. Capaz	H. Z. Geng
15:15-15:30	C. Bichara	M R Ammar	A. Neves	Vijayaraghavan	N.P. Rezende
15:30-15:45	B. Yakbson*	Miranda	MB Barbosa	Boyuan Shen	H. Wang
15:45-16:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:15-16:30	Invited R. W. Nunes	Invited S. Cambre	Invited V. Zucolotto	Invited Onner Yaffe	J. Lefebvre
16:30-16:45					S. Lepak
16:45-17:00	Oliveira*	Invited Qingwen Li	Summary	Invited T. Ideue	Rahman
17:00-17:15	Matsushita*				D Pedrazoll*
17:15-17:30	Carvalho*	A. Loiseau		E. Viana	Bezrodny*
17:30-17:45	M. A. Filho *	ZJ Jakubek		D. v. Dreifus	Y. Yang*
17:45-18:00	Summary	J. S. Bulmer		A. Corradi	Y. Ohno
18:00-18:15		A. Castan		L. Lafetá	Summary
18:15-18:30		Summary		Yang Wu	
18:30				Summary	

* To be confirmed

