



# In-Person Conference

**Program-At-A-Glance**

**Peers Alley Media**

1126 59 Ave East, V5X 1Y9  
Vancouver BC, Canada



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[www.peersalleyconferences.com](http://www.peersalleyconferences.com)

5<sup>th</sup> Edition of  
**ADVANCED**  
**MATERIALS SCIENCE**  
**WORLD CONGRESS**

**MARCH 27-28**  
**2023**

**Barcelona**  
**Spain**

**Scientific Program**

# DAY 1

MARCH 27, 2023

# Scientific Program

08:00-08:20 Registrations

08:20-08:30 Opening Ceremony

## Keynote Forum

08:30-08:55

**Title: Polyethylenimine-based materials: Novel heterogeneous catalysts for sustainable organic transformations**

**Alessandro Sacchetti**, *Politecnico di Milano, Italy*

08:55-09:20

**Title: Sample preparation for microstructural analysis using 3D printed tools**

**Lawrence Whitmore**, *Paris Lodron University of Salzburg, Austria*

09:20-09:45

**Title: Large electrocaloric effect in  $\text{Pb}(\text{Sc}_{0.25}\text{In}_{0.25}\text{Nb}_{0.25}\text{Ta}_{0.25})\text{O}_3$  medium-entropy ceramics**

**Qi Zhang**, *Basque Center for Materials, Applications and Nanostructures, Spain*

## Distinguished Speaker Talks

Chair

**Alexander S. Mukasyan**, *University of Notre Dame, USA*

Chair

**María Yesenia Díaz Cárdenas**, *Technologic of Higher Studies of Coacalco, Mexico*

09:45-10:05

**Title: Materials science wish list for renewable energy**

**John J. Kilbane II**, *Illinois Institute of Technology, USA*

10:05-10:25

**Title: Technology to product design process for design education**

**Byungsoo Kim**, *Kansas State University, USA*

## Refreshment Break 10:25-10:40

10:40-11:00

**Title: Biopolymer-based active surfaces for novel tribo-electric nano generators (TEGs)**

**Fernando G. Torres**, *Pontificia Universidad Catolica del Peru, Peru*

11:00-11:20

**Title: Engineering of wood-based membranes with excellent permeability/selectivity properties for forward osmosis process**

**Masoud Rastgar**, *China University of Mining and Technology, China*

11:20-11:40	<p><b>Title: Fracture simulation of brittle materials in tension and compression using cohesive elements</b></p> <p><b>Raul Dario Durand Farfan</b>, <i>University of Brasilia, Brazil</i></p>
11:40-12:00	<p><b>Title: CuCrFeVTi high-entropy alloy studied by positron annihilation spectroscopy</b></p> <p><b>Ricardo Domínguez-Reyes</b>, <i>Universidad Carlos III de Madrid, Spain</i></p>
12:00-12:20	<p><b>Title: Reactive spark plasma sintering of advanced materials</b></p> <p><b>Alexander S. Mukasyan</b>, <i>University of Notre Dame, USA</i></p>
12:20-12:40	<p><b>Title: Materials for energy storage device – Na-based batteries</b></p> <p><b>Claudia D’Urso</b>, <i>CNR-ITAE, Italy</i></p>
<b>Group Photo</b>	
<b>Lunch Break 12:40-13:10</b>	
13:10-13:30	<p><b>Title: Oxidative and antimicrobial effects of iron, titanium oxide nanoparticles and thalicarpine</b></p> <p><b>Elitsa L. Pavlova</b>, <i>Sofia University St. Kliment Ohridski, Bulgaria</i></p>
13:30-13:45	<p><b>Title: Light-controlled disorder-engineering for functional optical metasurfaces</b></p> <p><b>Maximilian Buchmüller</b>, <i>University of Wuppertal, Germany</i></p>
13:45-14:05	<p><b>Title: Synthesis of chiral-at-metal rhodium complexes from achiral tripodal tetradentate ligands</b></p> <p><b>Ricardo Rodríguez</b>, <i>Universidad de Zaragoza, Spain</i></p>
14:05-14:25	<p><b>Title: Real-time monitoring of <i>Staphylococcus aureus</i> biofilm sensitivity towards antibiotics with isothermal microcalorimetry</b></p> <p><b>Willem J. B. van Wamel</b>, <i>Erasmus University Medical Center, Netherlands</i></p>
14:25-14:45	<p><b>Title: New space tourism industry and sustainable development</b></p> <p><b>Annette Toivonen</b>, <i>Haaga-Helia University of Applied Sciences, Finland</i></p>
14:45-15:05	<p><b>Title: A derivative of chalcone as green corrosion inhibitor for copper</b></p> <p><b>María Yesenia Díaz Cárdenas</b>, <i>Technologic of Higher Studies of Coacalco, Mexico</i></p>
15:05-15:25	<p><b>Title: Bionate biocompatibility: <i>In vivo</i> study in rabbits</b></p> <p><b>Maria D (Amparo) Vanaclocha-Saiz</b>, <i>Universitat Politècnica de Valencia, Spain</i></p>

## Refreshment Break 15:25-15:40

15:40-16:00

**Title: A review of recent developments in biomaterials used in total hip implants**

**Mohammed Zwawi**, *King Abdulaziz University, Saudi Arabia*

16:00-16:20

**Title: Oxide TFTs: Towards transparent & flexible pixel circuits for AMOLED displays**

**Kavindra Kandpal**, *Indian Institute of Information Technology, Allahabad, India*

16:20-16:40

**Title: Ferromagnetic materials for energy efficient computing**

**Prasanna Kumar Misra**, *Indian Institute of Information Technology, Allahabad, India*

16:40-17:00

**Title: Design of biocompatible energy harvesting device for low frequency operation**

**Surya Prakash**, *Indian Institute of Information Technology, Allahabad, India*

17:00-17:20

**Title: Simulation based reinforcement learning algorithms for material design and optimal chemical reactions**

**Rahul Meshram**, *Indian Institute of Information Technology, Allahabad, India*

17:20-17:40

**Title: A single electron transistor nanopore as toxic gas sensor: First principles investigation**

**Boddepalli SanthiBhushan**, *Indian Institute of Information Technology, Allahabad, India*

17:40-18:00

**Title: Climate system : A global sensitivity approach**

**Liban Ismail**, *Université Clermont Auvergne, France*

Poster

**Title: Microstructure, mechanical and biophysical properties of pure ultra-fine grain Titanium**

**Krzysztof Wierzbanski**, *AGH University of Science and Technology, Poland*

## Panel Discussions

End of Day 1



# DAY 2

MARCH 28, 2023

# Scientific Program

08:00-08:20 Registrations

08:20-08:30 Opening Ceremony

## Keynote Forum

08:30-08:55

**Title: Multicoloured Jacquard artworks reproduction with CMYK channels to improve colour accuracy**

**Ken Ri Kim**, *Loughborough University, United Kingdom*

08:55-09:20

**Title: Optical sensors based on symmetric waveguide gratings**

**Patrick Görrn**, *University of Wuppertal, Germany*

09:20-09:45

**Title: Magnesium screws for fracture treatment in Trauma surgery: 3.5-Year clinical results after medial malleolus fracture fixation and Computed Tomography (CT)**

**Patrick Holweg**, *Medical University of Graz, Austria*

## Distinguished Speaker Talks

Chair

**Yamin Leprince-Wang**, *Université Gustave Eiffel, France*

Chair

**Taisei Kaizoji**, *International Christian University, Japan*

09:45-10:05

**Title: On adaptive multi-objective optimization for greener wired networks**

**Hatem Yazbek**, *Nova Southeastern University, USA*

10:05-10:25

**Title: Green algae-based biopolymers for green energy storage devices**

**Fernando G. Torres**, *Pontificia Universidad Catolica del Peru, Peru*

## Refreshment Break 10:25-10:40

10:40-11:00

**Title: A theory of speculative bubbles and crashes**

**Taisei Kaizoji**, *International Christian University, Japan*

11:00-11:20	<p><b>Title: Clinical significance of 'Hepcidin inducer Laennec and Porcine' in the treatment of Hereditary Hemochromatosis, NASH, and other iron loading chronic liver diseases complicating with Type2 DM</b>  <b>Yuki HAMADA</b>, <i>HAMADA Clinic for Gastroenterology and Hepatology, Japan</i></p>
11:20-11:40	<p><b>Title: Dual-segment continuum robot with rotational motion along the deformed backbone</b>  <b>Qingxiang Zhao</b>, <i>Chinese Academy of Sciences, China</i></p>
11:40-12:00	<p><b>Title: Development and application of a hydraulic impact test machine for simulating rockburst conditions</b>  <b>WANG Jie</b>, <i>Liaoning Technical University, China</i></p>
12:00-12:20	<p><b>Title: Photocatalytic activity of nanostructured ZnO for water and air purification: From microfluidics to smart city applications</b>  <b>Yamin Leprince-Wang</b>, <i>Université Gustave Eiffel, France</i></p>
12:20-12:40	<p><b>Title: Integration of smart, ultrathin and flexible cellulose-based printed sensors for process control and health monitoring</b>  <b>Mohammed Khalifa</b>, <i>Kompetenzzentrum Holz GmbH, Austria</i></p>
<b>Lunch Break 12:40-13:10</b>	
13:10-13:30	<p><b>Title: Unidirectional flow of composite bright-bright solitons through asymmetric double potential barriers and wells</b>  <b>Amaria Javed</b>, <i>New York University Abu Dhabi, United Arab Emirates</i></p>
13:30-13:50	<p><b>Title: Development and comparison of airplane fuselage panel assembly system alternatives using axiomatic design principles and simulation methodology</b>  <b>Osman Emre CELEK</b>, <i>Turkish Aerospace Industries Inc., Turkey</i></p>
13:50-14:10	<p><b>Title: Anti-icing and anti-fouling properties of pitcher plant inspired coatings</b>  <b>Esra Kasapgil</b>, <i>Izmir Bakircay University, Turkey</i></p>
14:10-14:30	<p><b>Title: Polyphenolic extracts from the xerophyte Rhamnus lycioides as a radiation biodosimeter</b>  <b>Sihem Guesmi</b>, <i>National Agronomic Institute of Tunisia, Tunisia</i></p>
14:30-14:50	<p><b>Oral Talk:- Title: Advanced nano-materials for electrochemical COVID detection</b>  <b>Angeliki Brouzgou</b>, <i>University of Thessaly, Greece</i></p> <p><b>Poster:- Title: Titanium nano-columns on graphene monolayer/Cu electrode for electrochemical dopamine detection</b>  <b>Angeliki Brouzgou</b>, <i>University of Thessaly, Greece</i></p>

14:50-15:10	<p><b>Title: Numerical analysis of topological metamaterials as one dimensional photonic crystals</b>  <b>Akhilesh Tiwari</b>, <i>Indian Institute of Information Technology, Allahabad, India</i></p>
15:10-15:30	<p><b>Title: An IoT based intelligent driver assistance system (i-DAS)</b>  <b>Ashok G. Verghese</b>, <i>Hindustan Institute of Technology and Science, India</i></p>
<p><b>Refreshment Break 15:30-15:45</b></p>	
15:45-16:05	<p><b>Title: Geostatistics for mineral deposit grade assessment</b>  <b>Bhabesh C Sarkar</b>, <i>IIT(ISM) Dhanbad, India</i></p>
16:05-16:20	<p><b>Title: Tungsten oxide–reduced graphene oxide composites for photoelectrochemical water splitting</b>  <b>Shahzad Munir Ansari</b>, <i>Federal Urdu University of Arts, Science and Technology, Pakistan</i></p>
16:20-16:35	<p><b>Title: On log dagum weibull distribution: Applications on lifetime data</b>  <b>Aneeqa Khadim</b>, <i>Mirpur University of Science and Technology, Pakistan</i></p>
16:35-16:55	<p><b>Title: Experimental observation of temperature variations in the bone due to certain physical parameters during bone drilling process</b>  <b>J.G. Tsiagadigui</b>, <i>University of Yaoundé 1, Cameroon</i></p>
16:55-17:15	<p><b>Title: An improved multigrid solver and a novel visualization strategy for the p-version finite element method</b>  <b>Janitha Gunatilake</b>, <i>University of Peradeniya, Sri Lanka</i></p>
17:15-17:35	<p><b>Title: Development of B-cell reference materials for comparable and quantitative cytometric expression analysis</b>  <b>Lili Wang</b>, <i>National Institute of Standards and Technology (NIST), USA</i></p>
17:35-17:55	<p><b>Title: Analysis of the solidus temperature of multicomponent steel</b>  <b>Toshio Fujimura</b>, <i>JFE Techno Research Corp, Japan</i></p>
17:55-18:15	<p><b>Title: Diagnostic performance of acoustic radiation force impulse imaging in evaluating liver fibrosis in patients with chronic hepatitis B infection: A cross-sectional study</b>  <b>Chuong Dinh Nguyen</b>, <i>University Medical Center of HCMC, Vietnam</i></p>



18:15-18:35

**Title: Surfaces of carbon nanotubes as revealed by thermogravimetric and solvent extraction techniques**

**Mark A. Banash**, *Neotericon LLC, USA*

18:35-18:55

**Title: The zygoma anatomy-guided approach (ZAGA) for rehabilitation of the atrophic maxilla**

**André Sakima Serrano**, *Private Practice at ZAGA Center São Paulo, Brazil*

18:55-19:15

**Title: A new type of silica-induced “moundless” pitting corrosion in copper observed in Japan**

**Masahiro Sakai**, *Muroran Institute of Technology, Japan*

19:15-19:35

**Title: The advanced use of Calphad databases and methods in computational thermodynamics**

**Bo Sundman**, *OpenCalphad*

19:35-19:55

**Title: Investigation on fracture behavior of cementitious composites reinforced with aligned hooked-end steel fibers**

**Sujjaid Khan**, *Hebei University of Technology, China*

19:55-20:15

**Title: Chitosan nanoparticles and their application in agriculture**

**Divya Koilparambil**, *Apple International School, UAE*

20:15-20:35

**Title: Classification of fungal diseases in plant based on deep learning techniques**

**Mallikarjun Hangarge**, *Karnatak Arts, Science and Commerce College, India*

E-Poster

**Title: A bio-resourced and superhydrophobic dry water extinguishing agent for pool fire based on phytic acid and silicon**

**Haoran Jiang**, *University of Science and Technology of China, China*

Panel Discussions

End of Day 2 & Conference

Closing Remarks





**BOOKMARK  
YOUR DATES**

**6<sup>TH</sup> EDITION OF  
ADVANCED MATERIALS  
SCIENCE WORLD CONGRESS**

March 2024 | Amsterdam, Netherlands

<https://advanced-materialsscience.peersalleyconferences.com/>



# Virtual Conference

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VIRTUAL EVENT

5<sup>TH</sup> ADVANCED  
MATERIALS  
SCIENCE  
WORLD  
CONGRESS

MARCH 27-28

2023

**Theme:** Unveils the most important materials advancements happening now; breakthroughs in energy, future cities, transit, and medicine, cutting-edge technologies, and accelerating innovations in materials science and engineering

ADV. MATERIALS SCIENCE 2023

<https://advanced-materialsscience.peersalleyconferences.com/>

Scientific Program

# DAY 1

MARCH 27, 2023

# Scientific Program

## GMT-Greenwich Mean Time

08:30-09:00 Introduction

### Distinguished Speaker Talks

**Sessions:** Materials Science and Engineering | Nanomaterials and Nanotechnology | Advanced Materials and Nanotechnology | Smart Materials and Applications | Energy Materials | Polymer Science and Technology | Composite Materials | Carbon and 2D Materials | Graphene Technology | Metamaterials | Perovskites | Metallurgical and Materials Engineering | Metals and Alloys | Optics | Biomaterials and Medical Devices | Surface Science and Engineering

09:00-09:25  
Keynote Talk

**Title:** Physical development in the early years: The impact of a daily movement programme on young children's physical development  
**Pat Preedy, LSC Education Ltd, United Kingdom**

09:25-09:50  
Keynote Talk

**Title:** Graphene coatings: A disruptive approach to durable mitigation of environment-assisted degradation  
**Raman Singh, Monash University, Australia**

09:50-10:10

**Title:** Pickering like emulsion stabilized via fine bubbles  
**Tomohiro Onda, Kao Corporation, Japan**

10:10-10:30

**Title:** Spin reorientation in layered perovskite oxyfluoride  $\text{Pb}_3\text{Fe}_2\text{O}_5\text{F}_2$   
**Kengo Oka, Kindai University, Japan**

10:30-10:50

**Title:** Analysis of the solidus temperature of multicomponent steel  
**Toshio Fujimura, JFE Techno Research Corp, Japan**

10:50-11:10

**Title:** Integrated hydrobulging of prolate ellipsoids from preforms with multiple thicknesses  
**Jian Zhang, Jiangsu University of Science and Technology, China**

11:10-11:30

**Title:** A modularity design approach to behavioral research with immersive virtual reality: A SkyrimVR based behavioral experimental framework  
**Yu-Hsin Chen, Wenzhou-Kean University, China**

**Refreshment Break 11:30-11:45**

11:45-12:05	<p><b>Title: Mineral and toxic metal content of tropical stingless bee honey (Apidae; Heterotrigona itama) from Sabah, Borneo</b></p> <p>Suzan Benedick, <i>University Malaysia Sabah Sandakan Campus, Malaysia</i></p>
12:05-12:25	<p><b>Title: Derivation of the high-T<sub>c</sub> version of the BCS optical conductivity of conventional superconductors using the spin polaron theory and matsubara green's functions</b></p> <p>Unofre B. Pili, <i>University of San Carlos, Philippines</i></p>
12:25-12:45	<p><b>Title: Diagnostic performance of acoustic radiation force impulse imaging in evaluating liver fibrosis in patients with chronic hepatitis B infection: A cross-sectional study</b></p> <p>Chuong Dinh Nguyen, <i>University Medical Center of HCMC, Vietnam</i></p>
12:45-13:05	<p><b>Title: Mechanical behavior of graphene reinforced metal matrix composites</b></p> <p>G.G.SOZHAMANNAN, <i>Sri Manakula Vinayagar Engineering College, India</i></p>
13:05-13:25	<p><b>Title: Dielectric properties of alumina-CaTiO<sub>3</sub> nanocomposite for biomedical application</b></p> <p>Prafulla Kumar Mallik, <i>Indira Gandhi Institute of Technology, India</i></p>
<b>Lunch Break 13:25-13:55</b>	
13:55-14:15	<p><b>Title: Soft artificial optical skin for biomedical application</b></p> <p>Abhijit Chandra Roy, <i>Indian Institute of Science, India</i></p>
14:15-14:35	<p><b>Title: THz graphene MIMO dielectric resonator antenna</b></p> <p>Amarjit Kumar, <i>National Institute of Technology, India</i></p>
14:35-14:55	<p><b>Title: Automatic sleep stage classification with reduced epoch of EEG</b></p> <p>Sagar Santaji, <i>KLS Gogte Institute of Technology, India</i></p>
14:55-15:15	<p><b>Title: Porphyrin: An emerging next generation functional molecule for energy related applications</b></p> <p>Darpan Vijaykumar Bhuse, <i>Vellore Institute of Technology, India</i></p>
15:15-15:35	<p><b>Title: Lead-free transducer design for non-invasive continuous glucose monitoring using photoacoustic spectroscopy</b></p> <p>Pradyut Kumar Sanki, <i>SRM University, India</i></p>

15:35-15:55

**Title: FTIR spectrum of soil organic carbon changes (SOC) by the growth of rubber tree (*Hevea brasiliensis*) seedlings in soils with varied pH and base status**  
*Ambily. K.K, Rubber Research Institute of India, Kottayam, India*

15:55-16:15

**Title: Optimization study on sliding wear characteristics and heat treatment conditions of different grades of ferritic ductile cast iron**  
*Bramaramba.v, NIT Rourkela, India*

16:15-16:35

**Title: High Thermal Stability of the RF dielectric properties of the BiVO<sub>4</sub> matrix added with ZnO**  
*Daniel Xavier Gouveia, Federal University of Ceará, Brazil*

### Refreshment Break 16:35-16:50

16:50-17:10

**Title: Effects of serum albumin on the photophysical characteristics of synthetic and endogenous protoporphyrin IX**  
*Iouri Borissevitch, Universidade de São Paulo, Brazil*

17:10-17:30

**Title: The zygoma anatomy-guided approach (ZAGA) for rehabilitation of the atrophic maxilla**  
*André Sakima Serrano, Private practice at ZAGA Center São Paulo, Brazil*

17:30-17:50

**Title: Nanocellulose biobased composite overlays**  
*Gregory T. Schueneman, Forest Products Laboratory, USA*

17:50-18:15  
Keynote Talk

**Title: A single intraarticular injection of nanotechnology-based drug formulation as a safe osteoarthritis disease-modifying drug**  
*Hee-Jeong Im, University of Illinois at Chicago, USA  
& Jesse Brown Veterans Affairs Medical Center, USA*

### Panel Discussions



## GMT-Greenwich Mean Time

08:30-09:00 Introduction

### Distinguished Speaker Talks

**Sessions:** Materials Science and Engineering | Nanomaterials and Nanotechnology | Advanced Materials and Nanotechnology | Smart Materials and Applications | Energy Materials | Polymer Science and Technology | Composite Materials | Carbon and 2D Materials|Graphene Technology | Metamaterials | Perovskites | Metallurgical and Materials Engineering | Metals and Alloys | Optics | Biomaterials and Medical Devices | Surface Science and Engineering

09:00-09:20

**Title:** A new type of silica-induced “moundless” pitting corrosion in copper observed in Japan  
**Masahiro Sakai, Muroran Institute of Technology, Japan**

09:20-09:40

**Title:** Antibiotic-resistant superbugs on nanomaterials and nanoplastics  
**Sunghee Joo, University of Seoul, South Korea**

09:40-10:00

**Title:** Investigation on fracture behavior of cementitious composites reinforced with aligned hooked-end steel fibers  
**Sujjaid Khan, Hebei University of Technology, China**

10:00-10:20

**Title:** Classification of fungal diseases in plant based on deep learning techniques  
**Mallikarjun Hangarge, Karnatak Arts, Science and Commerce College, India**

10:20-10:35

**Title:** Tungsten oxide–reduced graphene oxide composites for photoelectrochemical water splitting  
**Shahzad Munir Ansari, Federal Urdu University of Arts, Science and Technology, Pakistan**

10:35-10:55

**Title:** Luminescence studies on  $\text{Eu}^{3+}$ :  $\text{B}_2\text{O}_3$ - $\text{SrO}$ - $\text{TiO}_2$ - $\text{LiO}$ -  $\text{Al}_2\text{O}_3$  glasses  
**M. Priya, Saveetha Engineering College, India**

10:55-11:15

**Title:** Chitosan nanoparticles and their application in agriculture  
**Divya Koilparambil, Apple International School, UAE**



## Refreshment Break 11:15-11:30

11:30-11:50

**Title: Causal analysis of company performance and technology mediation in small and medium enterprises during COVID-19**  
Ashraf Mishrif, *Sultan Qaboos University, Oman*

11:50-12:10

**Title: Domination of pythagorean fuzzy graph**  
Sadegh Banitalebi, *Imam Hossein University, Iran*

12:10-12:30

**Title: Direct cost analysis for 32,783 samples with preanalytical phase errors**  
Pinar Eker, *Maltepe University Faculty of Medicine, Turkey*

12:30-12:50

**Title: Modelling Strength Data Sets via Modified Weibull Distribution**  
Huseyin Unozkan, *Halic University, Turkey*

12:50-13:10

**Title: Advances in illicit drugs detection at points of care**  
Ghadeer M. M. Abdelaal, *Zagazig University, Egypt*

13:10-13:30

**Title: Analysis of straightness and flatness errors based on Python**  
Ahmed M. S. El Melegy, *National Institute of Standards, Egypt*

## Lunch Break 13:30-14:00

14:00-14:20

**Title: Biological acidification of pig manure using banana peel waste to improve the dissolution of particulate phosphorus: A critical step for maximum phosphorus recovery as struvite**  
Langa Bright Moyo, *University of the Witwatersrand, South Africa*

14:20-14:40

**Title: Robotic process automation in banking industry: A case study on Deutsche Bank**  
Alice Saldanha Villar, *University of Essex, United Kingdom*

14:40-15:00

**Title: A culture model for the assessment of phenylalanine neurotoxicity in phenylketonuria**  
Julian Kylies, *University Medical Center Hamburg-Eppendorf, Germany*

15:00-15:20

**Title: Ethics of human-machine interaction: A proposition**  
Abeer Dyoub, *University of LAquila, Italy*

15:20-15:40

**Title: Evaluation of structural properties of biodegradable nanoPMOs by STORM imaging for efficient cancer therapy**  
Pradip Das, *University of Montpellier, France*

15:40-16:00

**Title: The advanced use of Calphad databases and methods in computational thermodynamics**  
Bo Sundman, *OpenCalphad*

16:00-16:20

**Title: Synthesis of chiral-at-metal rhodium complexes from achiral tripodal tetradentate ligands**  
Ricardo Rodríguez, *Universidad de Zaragoza, Spain*

**Refreshment Break 16:20-16:35**

16:35-16:55

**Title: Quality of life after extraction of mandibular wisdom teeth: A systematic review**  
Bassima Chami, *Mohammed V University, Morocco*

16:55-17:15

**Title: Exploring chitosan as an ecofriendly agent to improve sustainable dyeing properties of cotton fabric dyed with (*Opuntia Ficus-Indica* L) fruit peel and its UV protection activity**  
Rym Mansour, *University of Monastir, Tunisia*

17:15-17:35

**Title: Coping with complexity in scientific research by combining systems, qualitative and quantitative approaches**  
Omar Sacilotto Donaires, *School of Economics, Business Administration and Accounting at Ribeirão Preto, Brazil*

17:35-18:00  
Keynote Talk

**Title: Development of B-cell reference materials for comparable and quantitative cytometric expression analysis**  
Lili Wang, *National Institute of Standards and Technology, USA*

18:00-18:25  
Keynote Talk

**Title: Nanostructured materials templated on short DNA oligonucleotides, at different pH conditions**  
Julio Cesar Gonzalez Olvera, *Universidad Politécnica de Santa Rosa Jáuregui, Mexico*

18:25-18:45

**Title: XRD-Results measured on fracture surfaces of austenitic tensile test specimen**  
Karl Berreth, *Materialprüfungsanstalt Universität Stuttgart, Germany*

**Panel Discussions**

**Closing Remarks**





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