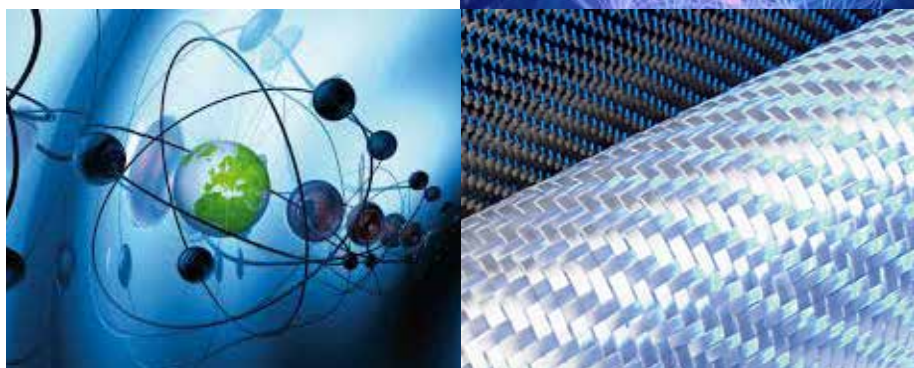
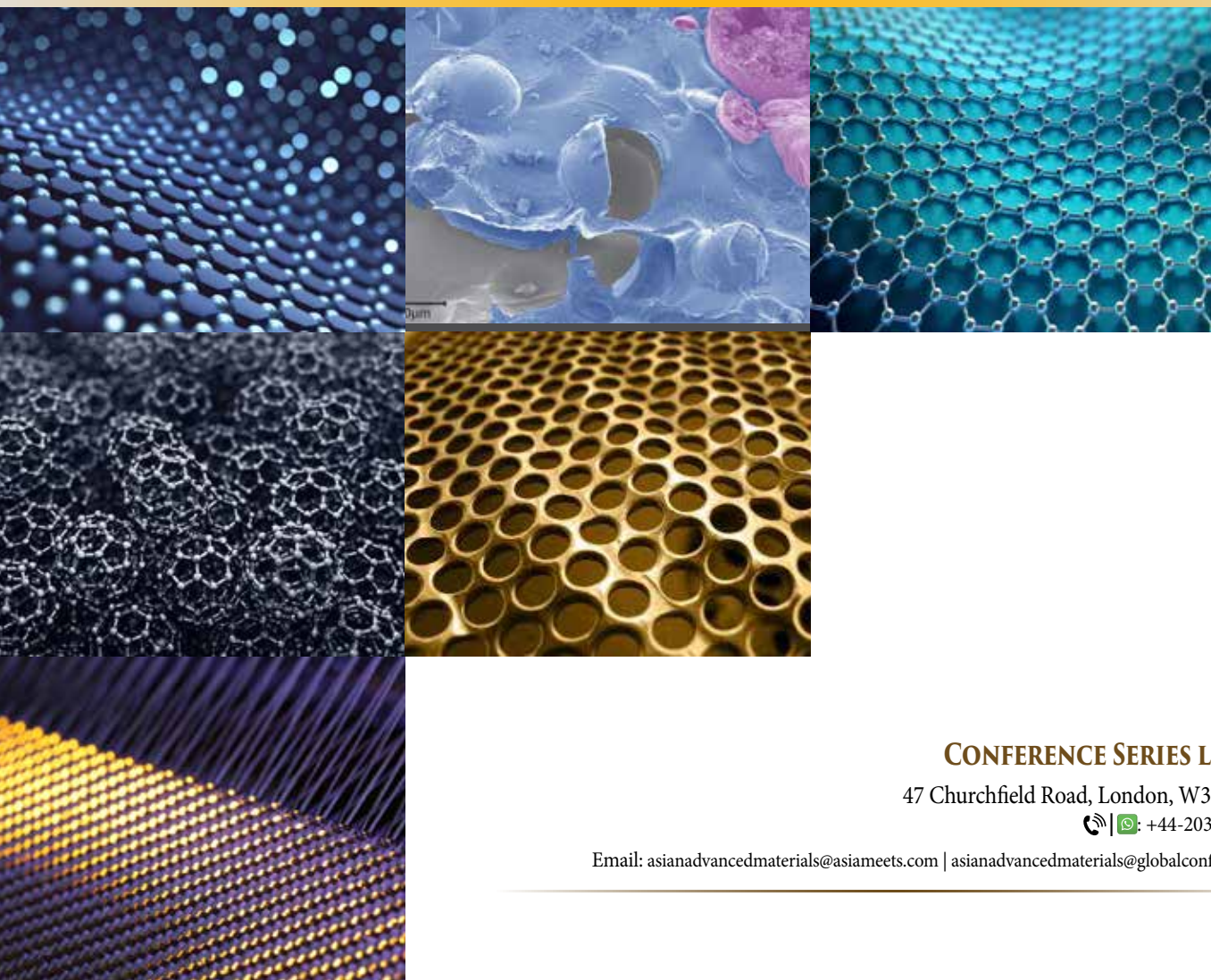


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08:00-08:50 Registrations

Seletar Room 1

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08:30-09:00

Opening Ceremony

08:50-09:00 Introduction

Keynote

09:00-09:30 **Title: Application of cold spraying technique for catalyzing cold rolled metal rods with Ni for use as a metal hydride solid storage medium**

Mohammad Banyan, Kuwait Institute for Scientific Research, Kuwait

09:30-10:00 **Title: Comparison of the effect of Poly (N-vinyl caprolactam) and Poly (N-isopropylacrylamide) trimers on the stability of hydrated Na-montmorillonite: A molecular dynamics study**

Moussa Camara, China University, China

10:00-10:30 **Title: Phase stability and properties of Ti-nb-zr thin films and their dependence on Zr addition**

Munkhbayar Baatarsukh Gyeonsang, National University, South Korea

Group Photo 10:30-10:35

Networking and Refreshments Break: 10:35-11:05

Session: Advanced Materials and Functional Devices | Engineering Materials | Composite Materials | Magnetism & Multiferroism | Optical Materials and Plasmonics | Energy and Harvesting Materials | Nanotechnology-Basics to Applications | Nano Materials | Nano Structures | Properties of Nano Materials | Carbon Nanostructures and Graphene | Spintronics | Nanoparticle Synthesis and Applications

Session Introduction

Session Chair: Mohammad Banyan, Kuwait Institute for Scientific Research, Kuwait

11:05-11:25 **Title: Numerical simulation of the interference effect of double cracks in X80 pipeline weld**

Wei Cui, Associate Professor, Northeast Petroleum University, China

Lunch Break: 12:25-13:30 @ Atrium Restaurant

Poster Presentation @ 13:30-14:30

AM-001 **Title: Encapsulation of gallic acid derivative with starch matrix- in vitro evaluation of antioxidant, antibiofilm and antioxidant potential**

Prakashkumar Nallasamy, Alagappa University, India

AM-002 **Title: Investigation of NH₃ Gas Sensing Behavior of Intercalated PPy – GO – WO₃ hybrid nanocomposite at room temperature**

Heiner A J, Alagappa University, India

AM-003 **Title: Surface bound nanostructures of ternary r-GO/Mn₃O₄/V₂O₅ system for room temperature selectivity of hydrogen gas**

M. Amarnath, K. Gurunathan, Alagappa University, India

AM-004 **Title: Development of silicon nano-particle films using a reactive chemically adsorbed monolayer**

Airi Yoshioka, Kagawa University, Japan

AM-005 **Title: Investigation of uni-directional nanorods, composed microspheres and branched nanorods for QDSSC solar cell application**

Arjunkumar Bojarajan, Alagappa University, India

Panel Discussion

Day 2 October 22, 2019

Keynote

09:00-10:00 Title: **A Mechanism for the Enhancement of The Catalytic Activity of Graphene As a Support Material for Oxygen Evolution Reaction Based on Mixed Potential Theory**

Heba Ahmed, RMIT University City Campus, Australia

10:00-10:30 Title: **Inorganic fullerene-like nanoparticles and nanotubes, overview and recent results**

Yongxin, Ung Hom, Kowloon, Hong Kong

Networking and Refreshments Break: 10:30-11:00

Session Introduction

Poster Presentation @ 11:00-12:30

AM-001 Title: **Gyeonggi-do, Suwon-Si, Jangan-gu, Cheoncheon-dong, 268-28, room no: 202, 16418, rep. of Korea**

Srijita Nundy, Korea (South)

AM-002 Title: **A Study on Ultra-High-Precision Magnetic Abrasive Finishing of 316L STS Bio-Wire Material Using Eco-Friendly Magnetic Abrasive Finishing**

Lida Heng, Chonbuk National University, Korea

AM-003 Title: **Smart Polymer-Coated Hybrid Calcium Phosphate Nanoparticles for Oral Vaccine Delivery**

A Mbang Sama, Daimler AG, Germany

Lunch Break: 12:30-13:30 @ Atrium Restaurant

Panel Discussion

Award Ceremony

Thanks Giving & Closing Ceremony

