KASChem-2018 & KaSAM – 2018 TECHNICAL PROGRAMME
(Subject to Change !)

VENUE

Day I (KASChem-2018): South Western College Auditorium, Basundhara, Kathmandu

Day I (KaSAM-2018 Inauguration Ceremony): Park Village Resort, Budhanilkantha, Kathmandu

Day II - IV: Park Village Resort, Budhanilkantha, Kathmandu

DAY I. Friday, OCTOBER 26, 2018 (Short Course for Young Scientists)

3rd Kathmandu Autumn School on Chemistry and Chemical Technologies (KASChem-2018)

[Current Trends in Synthesis, Characterization and Applications of New Materials]

Chairpersons: Dr. Sabita Shrestha (Tribhuvan University, Kathmandu, NEPAL)

Dr. Bhim Kafle (Kathmandu University, Dhulikhel, NEPAL)

0730 – 0830	***Registration***
0830- 0900	***Welcome and Introduction***
0900-0945	*Rameshwar Adhikari (Tribhuvan University, Kathmandu, NEPAL)* **Electron Microscopic Techniques for Materials Characterization**
0945- 1030	*Ralf Lach (Polymer Service GmbH, Merseburg, GERMANY)* **Mechanical Properties of Polymers**
1030- 1100	***Break***
1100-1145	*Jakub Sirc (Institute of Macromolecular Chemistry, Prague, CZECH REPUBLIC)* **Clean Laboratory Practices for Research and Innovations**
1145- 1230	*Michael Hess (Department of Physics, University of North Texas, Denton, USA)* **Viscoelastic Properties of Polymers**
1230- 1330	***Lunch Break***
1330- 1415	*Jean Marc Saiter (Onyx Inc., Nutriset, Rouen, FRANCE)* **Thermal Analysis of Polymeric Materials**
1415- 1500	*Vimal Katiyar (Indian Institute of Technology Guwahati, INDIA)* **Biodegradable Polymer Processing and Characterization Tools**
1500- 1530	Closing of the Autumn School (KASChem-2018)
1630- 1730	**Inauguration Ceremony of KaSAM – 2018 @ Park Village Resort, Budhanilkantha, Kathmandu**

DAY II. SATURDAY, OCTOBER 27, 2018

0800- 0900	***Registration***

Keynote Lectures (Hall A)	
0900- 0935	*Shinichi Sakurai, Kyoto Institute of Technology, Kyoto, JAPAN* **Grain Coarsening in Sphere-Forming Triblock Copolymers Near the Free Surface**
0935 – 1010	*Vimal Katiyar, Indian Institute of Technology Guwahati, INDIA* **Sustainable Plastics for Commodity, Engineering and Biomedical Applications**
1010 – 1040	***Tea/Coffee Break***

Symposium I: India-Japan-Nepal Special Symposium on New Composite Materials (Hall A)

1040- 1105	*Shinichi Sakurai, Kyoto Institute of Technology, Kyoto, JAPAN* **Effects of A Liquid-type Nucleation Agent on Isothermal and Non-isothermal Crystallization Behaviors of Poly(L-Lactic Acid) as Analyzed by POM and DSC**
1105- 1125	*Kazunari Masutani, Kyoto Institute of Technology, Kyoto, JAPAN* **The Development of 3D Printing Materials using Poly(lactide)**
1125- 1140	*Jyoti Giri, Tribhuvan University, Kathmandu, NEPAL* **Degradation Behaviour of Copolyester with Micro- and Nanocrystalline Cellulose**
1140- 1155	*Chethana Mudenur, Indian Institute of Technology Guwahati, India* **Application of Cellulose Nanocrystals for Dye Wastewater Treatment**
1155-1210	*Amit Kumar Pandey, Kyoto Institute of Technology, Kyoto, JAPAN* **Isothermal Crystallization Kinetics of Poly (L-Lactic Acid) Based Nanocomposites**
1210-1225	*Monika, Indian Institute of Technology Guwahati, Guwahati, Assam-781039, INDIA* **Nonisothermal Degradation Kinetics of Modified Poly (Lactic Acid)/Cellulose Nanocrystals Based Cast Films: An Industrially Viable Melt Extrusion Approach**
1225-1240	*Dibyashree Shrestha, Tribhuvan University, Kathmandu, NEPAL* **Wood derived Nanoporous Activated Carbon, a promising material for supercapacitor**
1240-1300	*Pramoda Kumar Satapathy, North Orissa University, Baripada, Odisha, INDIA* **Synthesis, Characterization and Catalytic Applications of Graphene CeO_2-TiO_2 Nano Composites**
1300-1400	***Lunch Break***
1400-1415	*Siddharth M. Bhasney, Indian Institute of Technology Guwahati, Guwahati 781039, Assam, INDIA* **Mechanical, Thermal, and Morphology Properties of Bio-Based Poly (lactic acid) [PLA] / Polypropylene [PP] Blends and their Microcrystalline Cellulose [MCC] Reinforced Biocomposites**
1415-1430	*Neha Mulchandani, Indian Institute of Technology Guwahati, Kamrup-781039, Assam, INDIA* **Stereocomplex Blends of Poly(ε-caprolactone)-b-Poly(L-lactic acid) and Poly(ε-caprolactone)-b-Poly(D-lactic acid): Effect of Block Length on the Structural, Thermal and Mechanical Properties**
1430-1445	*Gourhari Chakraborty, Indian Institute of Technology Guwahati, INDIA* **Poly (lactic acid)/Graphene based Thin Film Sensors for Ethanol Detection**
1445 – 1510	*Tara K. Sigdel, University of California San Francisco, San Francisco, USA* ***Comprehensive Targeted Urine Metabolomics Identifies Metabolites to Monitor Kidney Transplant Injury***
1510 – 1800	***Tea/Coffee and Poster Session***

DAY III. SUNDAY, OCTOBER 28, 2018

0830- 0900	***Registration***
Keynote Lectures (Hall A)	
0900- 0935	*S. Sivaram, Indian Institute of Science Education and Research, Pune, INDIA* ***Aliphatic Polyesters: A Platform for Design of Sustainable Materials***
0935 – 1010	*Valerio Causin, Università degli Studi di Padova, Padova, ITALY* **Cellulose-Based Hydrogels**
1010 – 1040	***Tea/Coffee Break***

Symposium II: Structure –Properties Relationships (Parallel Session, Hall A)

1040- 1105	*C. K. Das, P .G. Department of Applied Physics & Ballistics, FM University, Odisha, INDIA* **Effects of Mixing Sequence on the Fibrillation of LCP in LCP/Nylon Blends in Presence of Modified MWCNT**
1105- 1125	*Ralf Lach, Polymer Service GmbH, Merseburg, GERMANY,* **Mechanical and Fracture Mechanics Properties of Additive Manufactured Polymer Materials**
1125- 1150	*Domagoj Vrsaljko, University of Zagreb, Zagreb, CROATIA* **Influence of Surface Morphology and Plasma Treatment on Hydrophobicity of Polymer Blend Surfaces**
1150- 1215	*Yutaka Tanaka, University of Fukui, Fukui, JAPAN* **Enthalpy Relaxation Study for Polystyrene Film: Experiments of Pre-hold and Post-hold Stretches, and T_g Shoulder Shift**
1215-1230	*Mahesan Bavan , Universiti Teknologi Malaysia, MALAYSIA* **Behaviour of Web Strengthening of Composite Beam with Web Openings Subjected to Combined Hogging Moment and Axial Tension**
1230-1245	*A. K. M. Waliullah, Military Institute of Science and Technology, Dhaka, BANGLADESH* **Numerical Simulation of CFSST Columns Subjected to Concentric Axial Loading**
1245-1300	*Norshahida Sarifuddin, International Islamic University, Kuala Lumpur, MALAYSIA* **Hybrid Composites of Woven Carbon Fiber/Fine Kenaf Fabric Reinforced Epoxy Matrix**
1300 – 1315	*Shankar P. Khatiwada, Tribhuvan University, Kathmandu, NEPAL* **Tuning Morphology and Mechanical Properties of BCP Modified Nanostructured Epoxy Resin**
1315-1400	***Lunch Break***

Symposium III: Biomedical Materials and Tissue Engineering (Hall A)

1400 – 1420	*Jakub Sirc, IMC, Academy of Sciences of the Czech Republic, Prague, CZECH REPUBLIC* **Polymer Constructs for the Local Application of the Anticarcinogenic Agents**
1420 – 1440	*H. Ismail, Universiti Sains Malaysia, Penang, MALAYSIA* **Developments and Performances of Degradable Polymer Bio-Composites**
1440 – 1500	*Rajendra Joshi, Kathmandu University, Dhulikhel, NEPAL* **Amino Acids Based Biopolymers in Targeted Drug Delivery/Therapy**
1500 – 1515	*A. I. Cocarta, Academy of Sciences of the Czech Republic, Prague, CZECH REPUBLIC* **Methacrylate-Based Polymers for Intraocular Drug Delivery in Retinoblastoma Therapy: Sorption Capacity and Release Mechanism of Hydrophilic Anticancer Agents**
1515 – 1530	*Zuraida Ahmad, International Islamic University, Kuala Lumpur, MALAYSIA* **Halloysite – Nanoclay Starch Based Wound Healing Materials**
1530 – 1545	*Tanvir Ahmed, University of Dhaka, Dhaka, BANGLADESH* **Structural Color Exhibition and Drug Loading by Silica**
1545– 1615	***Tea Break***

Special Symposium IV: Materials Science of Foods and Nutrition (Hall A)

1615 – 1630	*Tika B. Karki, Kathmandu University, Dhulikhel/Kavre, NEPAL (TBC)* **Functional Food: Opportunities for Nepal (TBC)**
1630 - 1645	*Chloé Sainlaud, Nutriset, Hameau du Bois Ricard Malaunay, FRANCE* **Textural Properties of an Oil-based Food Matrix – the Role of Ingredients and Their Interaction**
1645 – 1700	*Benoît Basse, Agro Paris Tech, INRA, Université Paris Saclay, Massy, FRANCE* **Peanut Suspension Gelation Capacity Assessment**

DAY III. SUNDAY, OCTOBER 28, 2018

Symposium V: Novel Materials and Emerging Technologies (Parallel Session, Hall B)

1040- 1105	*Lok Kumar Shrestha, NIMS, Tsukuba, JAPAN* **Dimensionally-Integrated Fullerene-Based Nanomaterials**
1105- 1125	*Ranjan Kumar Mohapatra, Laxmi Vihar Sainik School, Bhubaneswar, INDIA* **Structural and Transport Properties of Bismuth Ferrite Lithium Vanadate ($BiFeO_3$-$LiVO_3$)**
1125- 1150	Bhim P. Kafle, *Kathmandu University, Dhulikel/Kavre, NEPAL* **Challenges in Preparing Reduced Graphene Oxide (RGO) Films for Hole Transport Layer for Perovskite Solar Cells**
1150- 1215	*S. Sharma, Patan Multiple Campus, Tribhuvan University, NEPAL* **Electrical Study of Atmospheric Pressure Dielectric Barrier Discharge in Central Hole Electrode System**
1215-1230	*Pritam Borker, P.E.S's R.S.N. College of Arts and Science, Goa, INDIA* **Enhanced Photocatalytic Activity of Fe Doped SnO_2 Compounds**
1230-1245	*Chaitali Hansda, The University of Burdwan, Burdwan, INDIA* **Spectroscopic Investigation of Interaction between Bovine Serum Albumin and ZnO Nanoparticles in Solution and Layer-by-Layer Self-assembled Film**
1245-1300	*Sonam Tamang, Tribhuvan University, Kathmandu, NEPAL* **Mechanical and Thermal Behavior of Epoxy/MWCNTs Nanocomposites**
1300-1400	***Lunch Break***

DAY IV. MONDAY, OCTOBER 29, 2018

0830- 0900	***Registration***

Keynote Lectures (Hall A)	
0900-0935	*Jean Marc Saiter, Université de Normandie, Rouen, France* **Time Dependent Properties in Macromolecular Structures**
0935-1010	*Shigeru Okamoto, Nagoya Institute of Technology, Nagoya, JAPAN* **Ordered Bicontinuous Double Diamond Structure in Block Copolymers and Blend Systems**
1010 – 1040	***Tea/Coffee Break***

Symposium VI: Novel Synthetic and Characterization Tools (Hall A)

1040- 1105	*Susan Joshi, Tribhuvan University, Kathmandu, NEPAL* **Phyto-Constituents of *Acorus calamus L. Rhizomes* Essential Oil from Two Districts of Nepal and its Antibacterial Activities**
1105- 1125	*Gan B. Bajracharya, Nepal Academy of Science and Technology (NAST), Lalitpur, NEPAL* **Esterification through the Novel Metal-Catalyzed Routes**
1125- 1140	*Shaily Kumari Patel, The Maharaja Sayajirao University of Baroda, Vadodara, INDIA* **Chemoselective Self-Assembly of 1–(2–hydroxyalkylideneamino)–2–piperazinylethane (L1–L3) with CS_2 and Transition Metal Ions: Synthesis and Biological Investigations of Dithiocarbamate Complexes Bearing Functionalized Ligand Backbone**
1140- 1155	*Jitendra Pandey, Korean Research Institute of Bioscience and Biotechnology (KRIBB), Cheongju, KOREA* **Eight New Isopimarane Diterpenoids from Aerial Parts of *Lycopus lucidus***
1155-1210	*Ashish Phuyal, Tribhuvan University, M. M. A. M. Campus, Biratnagar, NEPAL* **Phytochemical Screening, Metal Concentration Determination and Antibacterial Evaluation of *Drymaria diandra (Abijalo)* plant**
1210-1225	*Dhruvi Pithadia, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat INDIA* **Anchored 12-Tungstosilicic Acid: Synthesis, Characterization and Valorization of Glycerol**
1225-1240	*Utsav Chakraborty, Department of Physics, Jadavpur University, Jadavpur, Kolkata, West Bengal, INDIA* **Highly Selective Detection of Cobalt Ion by Cationic Dyes Acridine Orange and Rhodamine B through FRET Mechanism**
1240 – 1300	*Special Lecture (TBC)* **From Natural Products to Value Added Products**
1315-1400	***Lunch Break***

Symposium VII: Nano- and Biomaterials, Functional Devices (Hall A)

1400 – 1425	*Yogan Khatri, Life Sciences Institute, University of Michigan, Ann Arbor, Michigan, 48109, United States* **Nanodiscs incorporated Human Steroidogenic Cytochrome P450s CYP17A1 and CYP19A1 for the Mechanistic Investigation of C-C Lyase Reaction**
1425 – 1440	*Samrat Paul, Jadavpur University, Raja Subodh Mullick Road, Kolkata, West Bengal, INDIA* **PVA-Nano/microencapsulation: Effective Anti-cancer Drug Delivery System**
1440 – 1455	*Tanmoy Singha, Jadavpur University, Kolkata-700032, INDIA* **Interaction of Nano-Laminates with an Artificial Bio-membrane Monolayer at Air-saline Interface in Presence of a Fluorescent Dye to Elucidate the Potential Biohazard of Nano-aerosol by Langmuir-Blodgett Technique**
1455 – 1510	*Jnanranjan Panda, Department of Physics, Jadavpur University, Kolkata, W.B, INDIA* **PLGA-based Magnetite Nanoparticles for Improved Treatment of Metastatic Breast Cancer**
1510 – 1525	*Harisharan Adhikari, Central Depatment of Chemistry, Tribhuvan University, Kathmandu, NEPAL* **Chitosan from Crab Shells: Preparation, Characterization and Investigation of Physicochemical Properties**
1330 – 1630	***Closing Ceremony; Tea and Farewell***