4th International Symposium of the Vacuum Society of the Philippines (ISVSP 2022)

Scientific Program (all times are in UTC+8 time zone)

20 April 2022 (Wednesday)		21 April 2022 (Thursday)		22 April 2022 (Friday)	
8:30	Session room will be opened	8:45	Session room will be opened	8:45	Session room will be opened
8:45	Opening Ceremony and Group Photo	9:00	Plenary 3 - Jay HENDRICKS - NIST on a Chip: Quantum-Based Measurements for Pressure and Vacuum - (09:00 PM, 20 April - MD)	9:00	Plenary 4 - Mohan SANKARAN - Non-equilibrium, atmospheric-pressure plasmas for synthesis and degradation of chemicals - (08:00 PM, 21 April - Illinois)
9:00	Plenary 1 - Motoi WADA - Diagnostics tools to study plasma-surface interaction	9:50	Coffee Break	9:50	Coffee Break
9:50	Coffee Break	10:00	Invited 3 - Gil Nonato SANTOS - The Growth of Functional Nanomaterials Thru High Vacuum Technology	10:00	Invited 5 - Benedict SAN JOSE - Plasma and Thin Film Technologies in Advanced Semiconductor Packaging - A review of Recent Developments and Trends
10:00	Invited 1 - Renato DAVID - Methods, Processes and Dangers of waste gasification	10:40	Invited Early Career 3 - Arnold Rey GINES - Evidence of transient thermal load reduction in local gas injection type dielectric window	10:40	PST4 - Jose Gabriel ABALOS - Comparative Analysis of Plasma Excitation Parameters of Sheet-Shaped Plasma Using Two Different Microwave Sources
10:40	Invited Early Career 1 - Juvy A. BALBARONA - Analysis of Drop Size Distribution as a Function of Surface Roughness Properties and Operating Condition	11:10	NS&TF1 - Allen Vincent CATAPANG - Effect of substrate condition on the ZnO deposition via DC reactive magnetron sputtering using water vapor plasma	11:00	PST5 - James Edward HERNANDEZ II - Optical emission of target-confined plasmas via nanosecond pulsed laser ablation of graphite and aluminum
11:10	PST1 - Micah Stephanie Annejely ISRAEL - Analysis of the effect of atmospheric plasma on the thermal stability of natural zeolites	11:30	NS&TF2 - Rogel Jan BUTALID - Characterization of spin-coated zinc oxide-based macrocantilevers for vibrational energy harvesting	11:20	PST6 - Kathrina Lois TAACA - Investigating the Effect of Atmospheric Pressure Plasma on Chitosan-Acrylic Acid Solutions
11:30	PST2 - Yusaku OTA - Low energy molecular ion beam extraction from a duoplasmatron source	11:50	Lunch Break and Cultural Presentation	11:40	Lunch Break
11:50	PST3 - Keith Nealson PENADO - Spatially resolved plasma diagnostics of a discharge-stabilized atmospheric pressure RF plasma source for ion mobility spectrometry	13:20	Invited 4 - Satoshi HAMAGUCHI - Plasma process control with machine learning	13:00	Plenary 5 - Anton P.J. STAMPFL - Neutron spectroscopy: a tool for hard and soft matter studies - (15h00, Sydney)
12:10	Lunch Break and Virtual Tour of Holy Angel University	14:00	NS&TF3 - Glenson PANGHULAN - Characteristics of Ti-Al-Si-N Thin Films Grown using the Magnetized Sheet Plasma	13:50	Invited 6 - Magdaleno R. VASQUEZ, Jr. - Capacity Building in Plasma Research
13:30	Invited 2 - Randolph FLAUTA - Advantages, Challenges and Limitations of Plasma Cleaning in the Assembly Processes of Semiconductor Packaging Materials	14:20	NS&TF4 - Rozen Grace MADERA - Tuning the Deposition Parameters of TiO2 Films for Aesthetic Applications	14:20	PST7 - Marina Mercedes MENDOZA - Production of plasma-activated water using atmospheric pressure plasma jet system
14:10	Invited Early Career 2 - Julius Andrew P. NUÑEZ - High-pressure and high-temperature synthesis of LiMgH3	14:40	NS&TF5 - Arantxa Danielle MONTALLANA - Synthesis of annealed titanium films coupled with electron beam-reduced silver	14:40	PST8 - Jerome LAPITAN - Design and development of microwave plasma torch
14:40	ASS1 - Janella SALAMANIA - Influence of pulsed-substrate bias duty cycle on the microstructure and defects of cathodic arc-deposited Ti1-xAlxN coatings	15:00	Coffee Break	15:00	Closing Ceremony and Awarding
15:00	Plenary 2 - Richard E. PALMER - Scaling-up Nanoparticle Beam Deposition for Green Synthesis of Advanced Materials: From Atomic Imaging with Aberration-Corrected STEM to Applications in Catalysis - (08:00 AM, UK)	15:15	Short course - Zoltan DONKO - Insights into the capacitively coupled radiofrequency plasmas - (09h15, Budapest)	15:15	Coffee Break
15:50	Coffee Break			15:40	VSP Business Meeting
16:00	MS1 - Alyssa Gewell A. LLORIN - A molecular dynamics study of the influence of temperature on the mechanical properties of AlN, GaN and TiN		Plenary Talks		
16:20	MS2 - Daniela Rae SANTOS - Effect of selenium content on the mechanical properties of CdSexTe1-x for flexible solar cells: a molecular dynamics study		Invited Talks		PST = Plasma Science and Technology
16:40	MS3 - Doreen PUA - A molecular dynamics study on the transport properties of 1,2,3-trimethoxypropane as a potential Li-ion battery electrolyte		Invited Early Career Talks		MS = Modelling and Simulations
17:00	Short seminar on how to write a paper for JVSTB? - Eray AYDIL (Editor-in-Chief of J. Vacuum Sci. Technol. B) - (05:00 AM, New York)		Oral Presentations		ASS = Applied Surface Science
			Short courses/seminars		NS&TF = Nanometer Structures & Thin Films