



NIGERIAN SOCIETY OF CHEMICAL ENGINEERS (NSChE)

(A Division of NSE)



Annual International Conference & Annual General Meeting/Exhibition



THEME ► Rejuvenation of the Nigerian Industrial Sector:
The Chemical Engineering Perspectives



De Peace Hotel, Ilorin,
Kwara State



Thursday 10 – Saturday 12
November, 2022



NIGERIAN SOCIETY OF CHEMICAL ENGINEERS (NSChE) 2ND ANNUAL INTERNATIONAL CONFERENCE & AGM 2022

CONFERENCE PROGRAMME

PERIOD	EVENT
	Wednesday November 9 2022
08:00 - 23:59	DAY ZERO Arrival of invited Guests and Delegates Check-in to De Peace Hotel & Suites and other Designated Hotels (as applicable)
	Thursday November 10 2022
	DAY ONE All Activities on Day One hold at De Peace Hotel and Ilorin Golf Club
08:00 - 18:00	Arrival/All Day Registration Registration Desk at the De Peace Hotel & Suites
12:00 - 15:30	Golf Tournament Ilorin Golf Club
16:00 - 18:00	Press Conference by the National President Main Conference Hall
17:00 – 18:00	Rapporteurs Meeting Main Conference Hall
18:00 - 19:30	Networking
19:30 - 21:00	Cocktail/Fellows Happy Hours De Peace Hotel & Suites Arena
	Friday 11 November 2022
	DAY TWO
07:30 - 18:00	Arrival & Registration/Accreditation Registration desks at the De Peace Hotel & Suites
08:00 – 09:00	Breakout Technical Sessions I
	Session Chair: Prof. T. J. Afolabi Rapporteur: Dr. Olu Arotiowa Moderator: Dr. Adeyinka Yusuf Venue: Hall Room 01
08:10 – 08:20	TS01 - Synthesis and Application of Clinoptilolite for the Purification of Biogas from Cow Dung Emmanuel Olufemi Ehinmitola, Olayinka Sanda, Elijah Adekunle Taiwo; Gbolahan Oseni, Azeez Raifu, Matuwo Oladele and Samuel Adebayo
08:20 – 08:30	TS02 - Air Emissions from Co-Pyrolysis of Low-Density Polyethylene, Polystyrene and Polyethylene Terephthalate at Stepwise Increase in Temperature Atilade A. Oladunni, Oludare J. Odejobi and Jacob A. Sonibare

CONFERENCE PROGRAMME

PERIOD	EVENT
08:30 – 08:40	TS03 - Characterization of Char Derived from Pyrolysis of Low-Density Polyethylene (LDPE) Waste Adebola Femi Ade-Ajayi, Aishat A. Osigbesan, Ephraim A. Audu, Zaharaddeen Sani Gano and Jeffery Barminas
08:40 – 08:50	TS04 - Quantification of 5-Hydroxymethylfurfural and Lactic Acid from Hydrothermal Carbonization of Sugar Cane Bagasse and Corn Cob Opeoluwa O Fasanya, Dan Mallam Adamu, Abdulazeez Isa, Deborah C. Nwakuba, Elizabeth Winful, Olanikpekun Idowu, Elijah Adegbé, Saheed Ibraheem, Ephraim A. Audu, Mas'ud Musa, Boyce Agunwa and Jeffrey Barminas
	Session Chair: Dr. Akinjide Akinola Rapporteur: Dr. Abel Adeyi Moderator: Dr. Aliyu Bello Venue: Hall Room 02
08:10 – 08:20	TS05 - Investigation of Langmuir Fitness on The Adsorption of Nitrophenol, Naphthalene and Methylene Blue Mixture from Aqueous Solution using Activated Bentonite Clay Ayobami O. Ajani, Wasiat O. Bello, Tinuade J. Afolabi, Funmilayo N. Osuolale, Olufunmilayo A. Aworanti, Mujidat O. Aremu, Victoria A. Adeyi, Adeola R. Amole, and Abass O. Alade*
08:20 – 08:30	TS06 - Simulation of Pyrolysis Reactor to Produce Biofuel from Selected Biomass Ebenezer O. Dada, Oluchukwu C. Oyeka, Ifeoluwa O. Gbolahan, Temitope S. Olawale, Victor O. Olaleye, Akinola, D. Ogunso, Kamoru O. Oladosu, and Abass O. Alade
08:30 – 08:40	TS07 - Bio-Electrochemical Treatment of Pharmaceutical Wastewater and Sustainable Bioelectricity Generation using Microbial Fuel Cell Odunayo D Akinwumi, Samuel Agarry, Mujidat Aremu, Abass O. Alade and Oluwafunmilayo Aworanti
08:40 – 08:50	TS08 - An Approach to Scale up of Neem Seed Oil Solvent Extraction Pilot Plant John Goji Usman
	Session Chair: Prof. J. A. Sonibare Rapporteur: Dr. Akeem Arinkoola Moderator: Dr. Aramide Adesina Venue: Hall Room 03
08:10 – 08:20	TS09 - Modelling of Gaseous Pollutant Emissions from Savannah Vegetation Fires Khadijat A Abdulraheem, Jamiu A Adeniran and Adeniyi Aremu
08:20 – 08:30	TS10 - Three-box Sequential Modelling of the Emission, Decay and Transportation of Volatile Organic Compounds in Beauty Shops Sarat Ayodele Atanda, Jamiu Adeniran and Tunmise Adewoye

CONFERENCE PROGRAMME

PERIOD	EVENT
08:30 – 08:40	TS11 - Reduction of Chemical Oxygen Demand from Tannery Wastewater using Carbon Nanotubes modified Albizia Lebbeck Pods Tunmise Adewoye, Salimah Omari, Sarat Ayodele Atanda, Oladipupo O Ogunleye, Taofeek Salawudeen, Ambali Abdulkareem and Sherif I. Mustapha
08:40 – 08:50	TS12 - Application of Palm Kernel Shell Ash in the Treatment of Multicomponent Dyes in Simulated Wastewater: Optimization of Removal Efficiency Abass O. Alade*, Aduragbemi, G. Oyelade, Dauda O. Araromi, Taofik O. Salawudeen, Rebecca A. Olaoye, Temitope E. Odetoye, Monsur O. Dauda, and Tinuade J. Afolabi
	Session Chair: Dr. William AlMorof Rapporteur: Dr. Adewale Adeniyi Moderator: Dr. Aminah Sulayman Venue: Hall Room 04
08:10 – 08:20	TS13 - Process Development for the Production of Lower Olefins from Levulinic Acid using 2 Sec-Butyl Phenol Recovery Strategy Aramide A. Adesina, David Lokhat and Kamilu Oyedeko
08:20 – 08:30	TS14 - Thermodynamics Studies of Adsorption of Selected Antibiotics Mixture from Aqueous Solution using Delonix Regia Pod Ilesanmi A. Ojo, Ayobami O. Ajani, Wasiat O. Bello, Tinuade J. Afolabi, Abdulrazaq, Abdullahi, Akeem O. Olayiwola, Ameen N. Akinsola, and Abass O. Alade*
08:30 – 08:40	TS15 - Response Modeling and Optimization of Produced Softwood Sawdust Particleboards using Optimized R7adh2 Adhesive Lucas Hamidu and Umar Aroke
08:40 – 08:50	TS16 - Equilibrium Study of Methylene Blue Adsorption by Vitex Doniana Activated Carbon Francis A. Oluwadayo, Otoikhian Kevin and Nworie Emeka
09:10 – 10:10	Plenary Session 1 Chairman: Engr. Onochie A. Anyaoku, FNSChE, Past President, NSChE Moderator: Prof. Omodele Eletta Venue: Main Conference Hall
	PS01 - Industrial Applications of Nanotechnology Prof. Ambali Saka AbdulKareem, Department of Chemical Engineering, Federal University of Technology, Minna
10:10 – 10:40	Tea/Coffee Break/Networking Tea/Coffee Corner/Online
10:50 – 13:00	Opening Ceremony Main Conference Hall Chairman: Engr. Dr. Johnson B. Adewumi Proprietor, Thomas Adewumi University, Oko Kwara

CONFERENCE PROGRAMME

PERIOD	EVENT
	<p>Moderator: Prof. D. S. Ogunniyi Venue: Main Conference Hall</p> <p>PS02: Raw Material development: Agro-Industry & Solid Raw materials Presenter: Prof. Oyebanji Oyelaran-Oyeyinka, Chief of Staff and Special Adviser to the President, African Development Bank (AfDB), Abidjan Côte d'Ivoire</p>
13:00 - 14:30	<p style="background-color: #008000; color: white;">Lunch/Friday Prayers</p> <p style="background-color: #008000; color: white;">Designated Dining Area</p>
14:30 - 18:00	<p style="background-color: #008000; color: white;">Spouse's Program/City Tour</p> <p style="background-color: #008000; color: white;">Designated places</p>
14:30 - 16:00	<p style="background-color: #008000; color: white;">Plenary Session II</p> <p>Chairman: Dr. B. O. Makanjuola Chairman, Vitafoam Industries Limited, Lagos</p> <p>Moderator: Prof. O. O. Ogunleye Venue: Main Conference Hall</p>
14:50 - 15:40	<p>PS03 - Recent Development in the Oil and Gas Industry Engr. Gbenga Komolafe, Commission Chief Executive, Nigerian Upstream Petroleum Regulatory Commission (NUPRC), Abuja</p>
16:10 - 17:40	<p style="background-color: #008000; color: white;">Breakout Technical Sessions II</p> <p>Session Chair: Prof. A. Giwa Rapporteur: Dr. Esther Babatunde Moderator: Dr. Atilade Oladunni Venue: Hall Room 01</p>
16:20 - 16:30	<p>TS17 - Fuzzy Logic Controller Design for Temperature Control of Servo Systems using Simulink Ajiboye S. Osunleke*, Ayorinde Bamimore, Sunrise Ezekikwu, Ismail Oyehan and Nafees O. Sanni</p>
16:30 - 16:40	<p>TS18 - Thermodynamic Activity Coefficient Modelling of Liquid-Liquid Equilibrium Data for Tropical Almond Oil Biodiesel System Kenneth Kennedy Adama</p>
16:40 - 16:50	<p>TS19 - Fuzzy Logic Controller Design: A General Appraisal Ajiboye S. Osunleke, Ayorinde Bamimore, Ayodeji Ajani, Nafees O. Sanni and Ibrahim A. Badmus</p>
16:50 - 17:00	<p>TS20 - A New Implicit Model for Predicting Economic Pipe Diameter in A Fully Developed Turbulent Pipe Flow Innocent O. Oboh, Emmanuel Ainerua and Anslem Igbafe</p>

CONFERENCE PROGRAMME

PERIOD	EVENT
17:00 - 17:10	TS21 - Modelling Natural Gas Liquefaction to Liquefied Natural Gas and Propane using Nonlinear Autoregressive with Exogenous Input Neural Network Azubuike S. ASHINZE, Adekunle T. ADENIYI and Abdulwahab GIWA
17:10 - 17:20	TS22 - Evaluation of Natural Gas Liquefaction Process using Nonlinear Autoregressive Neural Network and Nonlinear Input-Output Neural Network: A Comparative Study Azubuike S. ASHINZE, Adekunle T. ADENIYI and Abdulwahab GIWA Session Chair: Prof. E. A. Taiwo Rapporteur: Dr. Bamidele Fakinle Moderator: Dr. Babatunde Adeoye Venue: Hall Room 02
16:20 - 16:30	TS23 - Flow and Compaction Properties of Excipients Developed from Biopolymer Waste Snail Shell and Influencing Factors Babatunde K. Adeoye, Elizabeth F. Aransiola, Gbenga Alebiowu, Micheal O. Osungunna
16:30 - 16:40	TS24 - Adsorption of Nickel (II) Cation from Aqueous Solution using Maize Cob-Activated Carbon: Optimization and Kinetic Studies Mayowa A. Lala, Zainab Olomowewe, Adekunle T Adeniyi and Abdulwahab Giwa
16:40 - 16:50	TS25 - Extraction of Bioemulsifier from Candida Tropicalis Isolated from Banana (Musa X Paradisiaca L.) Abigail Omolara Adetoyese and Elizabeth Aransiola
16:50 - 17:00	TS26 - Application of Box-Behnken Design in the Leaching Kinetics of Dolomite in Hydrochloric Acid Isaac Adekunle Joseph, Elijah Ajala, El-lmam AHMED and Mary Ajala
17:00 - 17:10	TS27 - Analysis of Liquid Products of Pyrolysed Low Density Polyethylene Aishat A. Osigbesan, Adebola Femi Ade-Ajayi, Ephraim A Audu, Zaharaddeen S. and Jeffery Barminas
17:10 - 17:20	TS28 - Synthesis and Characterization of Fe Doped Mordenite as a Prospective Catalyst for Pyrolysis of Waste Plastics Ephraim Akuaden Audu, Zaharaddeen S. Gano, Aishat A. Osigbesan, Adebola Femi Ade-Ajayi and Jeffrey Barminas Session Chair: Prof. O. O. Ogunleye Rapporteur: Dr. Ebenezer Odekanle Moderator: Dr. Yusuf Raji Venue: Hall Room 03
16:20 - 16:30	TS29 - Investigation of Adsorption Capacity of Eggshell-Based Chitosan in The Treatment of Multicomponent Aromatic Organic Pollutants Azeez G. Akinyemi, Arinkoola O. Akeem, Shukurat B. Olabiyi, Monsuru O. Dauda, Monsurat O. Jimoh, Odunola D. Akinwumi, Sunday O. Oyekunle, Tinuade J. Afolabi and Abass O. Alade

CONFERENCE PROGRAMME

PERIOD	EVENT
16:30 - 16:40	TS30 - Impacts of Metal Recycling Plant Operations on Ambient Air Quality Bamidele S. Fakinle, Jacob A. Sonibare, Funso Akeredolu and Ebenezer Odekanle
16:40 - 16:50	TS31 - Suitability of Adsorptive Cellulose Derived from Tithonia Diversifolia Xylem for the Treatment of Multicomponent Pharmaceutical Wastewater: Adsorption Capacity Optimization Olusesan A. Olu-Arotiowa, Abdulganiy O. Yusuf, Monsur O. Dauda, Omodele A.A. Eletta, Kazeem K. Salam, Rasheed O. Adetoro, Lekan T. Popoola, Tinuade J. Afolabi and Abass O. Alade
16:50 - 17:00	TS32 - Air Quality Impacts of Lube Blending and Insecticide Production Jacob A. Sonibare, Funso Akeredolu, Ebenezer Odekanle and Bamidele S. Fakinle
17:00 - 17:10	TS33 - Valorisation of Waste Parkia Pendula Inflorescence as Biosorbent for the Treatment of Synthetic Wastewater Containing Ternary Components of Pesticide Tinuade J. Afolabi, Hekram, A. Sadiq, Adewemimo, O. Popoola, Sunday, O. Oladunni, O. Monsur, O. Dauda, Omotayo, S. Amuda, Abolaji, G. Farombi, Esther O. Awotona, and Abass O. Alade
17:10 - 17:20	TS34 - Adsorption of Paracetamol from Pharmaceutical Wastewater using Groundnut (<i>Arachis Hypogaea</i>) Shell Activated Carbon Idayat A. Olowonyo, K. K. Salam, Mujidat Aremu and Agbaje Lateef Session Chair: Prof. D. O. Araromi Rapporteur: Dr. Jamiu Adeniran Moderator: Dr. Jamiu Adeniran Venue: Hall Room 04
16:20 - 16:30	TS35 - Production Optimization of a Nigerian Oil Well Ajiboye S. Osunleke, Ayorinde Bamimore, Francis Chukwunta, Nafees O. Sanni and Ibrahim A. Badmus
16:30 - 16:40	TS36 - Extraction of Keratin Protein from Chicken Feathers: An Optimization Study Olayomi Abiodun Falowo, Favour Kayode and Benjamin Aderemi
16:40 - 16:50	TS37 - Modelling, Simulation and Optimization of a Reactive Distillation Column Chinenye Ukpai, Mufliah G. Omofoyewa, Idowu Olateju, Saidat O. Giwa and Abdulwahab Giwa
16:50 - 17:00	TS38 - Process Simulation and Optimization of Palm Oil from Spent Bleaching Earth via Supercritical Extraction for Sustainable Development Wasiu A. Oladosu, Mohammed S. Haruna, Alaba A. Salami
17:00 - 17:10	TS39 - Production of Fuels from Guinea-Corn Straw and Waste Plastics

CONFERENCE PROGRAMME

PERIOD	EVENT
	Adeola Grace Olugbenga, Rasheed Babalola
17:10 - 17:20	TS40 - ANN Prediction of Selected Oleophilic Bacterial Growth in Crude Oil Bioremediation Ajiboye S. Osunleke, Nafees O. Sanni, Mumeneah O. Mustapha and Elizabeth Aransiola
Saturday 12 November 2022	
DAY THREE	
07:30 - 08:00	Arrival & Registration/Accreditation Registration desks at the De Peace Hotel & Suites
08:00 – 09:00	Breakout Sessions III
	Session Chair: Prof. Segun Ajayi Rapporteur: Dr. Hambali Umar Hambali Moderator: Dr. Opeoluwa O. Fasanya Venue: Hall Room 01
08:10 – 08:20	TS41 - Adsorption Studies on Waste Plantain Peel Ash as Adsorbent for Sorption of Pharmaceutical Mixtures Aqueous Medium Dauda O. Araromi, Sofiat O. Ganiyu, Ademola T. Adeniji, Damilola O. Adebukola, Ayobami O. Ajani, Oluseye O. Agbede, Kehinde A. Babatunde, Solomon O. Alagbe, Samuel E. Agarry, Taofik A. Adedosu, Ganiyu K. Latinwo, Abass O. Alade and Tinuade J. Afolabi
08:20 – 08:30	TS42 - Emission Of Air Pollutants in the Paper Recycling Plants: Measurement Results from a Nigerian Major Paper Recycling Plant Production Floors Funso Akeredolu, Bamidele S. Fakinle, Ebenezer Odekanle and Jacob A. Sonibare
08:30 – 08:40	TS43 - Elemental Characterization of Pollutants Emanated from Combustion of Selected Agricultural Remnants Tamilade, T. Adebisi, Adejoke O. Alamu, Sunday A. Adebanjo, Olusesan A. Olu-Arotiowa, Kazeem K. Salam, Lukuman, A. Jimoda and Abass O. Alade
08:40 – 08:50	TS44 - Seasonal Variation and Health Risks of Particulates at And Around Traffic Hotspots in Ibadan - A Model African Metropolis Emmanuel T. Odediran, Jamiu A. Adeniran and Rafiu Yusuf
	Session Chair: Prof. M.O. Aremu Rapporteur: Dr. Oluseye O. Agbede Moderator: Dr. K. Oyedeko Venue: Hall Room 02
08:10 – 08:20	TS45 - Isolation and Identification of Potential Hydrocarbon Degrading Microbes from Non-hydrocarbon Contaminated Sources for Crude Oil Spill Clean-up

CONFERENCE PROGRAMME

PERIOD	EVENT
	Elizabeth Winful, Opeoluwa O Fasanya, Jibrin Abdulkadir, Balli Gauje, Ugochi Okoduwa, Simon Adamun, Ephraim A. Audu, Judy Adudu, Hauwa Mohammed, Olalekan Adesina and Jeffrey Barminas
08:20 – 08:30	TS46 - Performance of Bio-Demulsifiers for Demulsification of Nigerian Crude Oils Aishat A. Osigbesan, Deborah C. Nwakuba, Ibrahim Mohammed-Dabo and Haruna Ibrahim
08:30 – 08:40	TS47 - Digestate Valorization: A Value Addition to Anaerobic Biodigestion Technology Minister E. Obonukut, Alesander Jock and Kingsley Egembra
08:40 – 08:50	TS48 - Performance of Deep Eutectic Solvents in the Extraction of Lactic Acid from Sugarcane bagasse and Corncob John Enemonwa OGUCHE, Alewo Opuada Ameh, Tajudeen Kolawole Bello and Nehemiah Samuel Maina
	Session Chair: Prof. L. A. Jimoda Rapporteur: Dr. Lekan Popoola. Moderator: Dr. Wasiu Oladosu Venue: Hall Room 03
08:10 – 08:20	TS49 - Synthesis and Characterization of Zinc Chloride Activated Carbon Adsorbent from Vitex Doniana (Black Plum) Seed Francis A. Oluwadayo, Otoikhian Kevin and Nworie Emeka
08:20 – 08:30	TS50 - Solvent Extraction of Acetic Acid from Aqueous Media Using Trioctyl Phosphine Oxide (TOPO) – Based Solvent Systems Olayinka Sanda, Emmanuel O. Ehinmitola, Bamidele S. Fakinle and Elijah Taiwo
08:30 – 08:40	TS51 - Electrochemical and Thermodynamic Evaluation of Spondias Mombin Leaves Extract as Green Inhibitor for Mild Steel Corrosion in Acidic Medium Kenneth K. Adama, Benedict I. Onyeachu, Ebijuwa M. Igho
08:40 – 08:50	TS52 - Production of Biodiesel from Orange Peel and Avocado Seed Oils. Effect of Reaction Parameters on Production Efficiency. Sylvester O. Anyikwa, Stanley M. Nwakaudu, Angela A. Nwakaudu, Boniface C. Ngolube and Chigoziri N. Njoku
	Session Chair: Prof. Omodele Eletta Rapporteur: Dr. K. K. Salam Moderator: Dr. Haruna Ibrahim Venue: Hall Room 04
08:10 – 08:20	TS53 - Adsorption Behaviour of Naphthalene, Anthracene and Pyrene in Aqueous Medium onto Rice Husk Ash: Removal Efficiency Optimization Ayobami O. Ajani, Ismahil K. Sokunbi, Damilola I. Adebukola, Sofiat, O., Ganiyu, Haleema O. Adedosu, Elizabeth F. Aransiola, Tinuade J. Afolabi, and Abass O. Alade

CONFERENCE PROGRAMME

PERIOD	EVENT
08:20 – 08:30	TS54 - Further Study on Electrical and Thermal Conductivities of Optimized Rice Husk Particleboard Lucas Hamidu, Umar Aroke, Odeh Osha and Idris Muhammad
08:30 – 08:40	TS55 - Investigation of Geochemical Properties of Subgrade (Laterite) Soil in Selected Areas In Jos-North as Engineering Materials for Sustainable Infrastructural Development Aliyuda Adamu, Lucas Hamidu, Apeh Friday, Zachariah Pyendang, Isheni Yakubu and Achema Felix
08:40 – 08:50	TS56 - Utilization of COSMO-RS for Valuable Metal Extraction from Spent Lithium-ion Batteries Hussein K. Amusa
09:10 - 10:10	Plenary Session III Main Conference Hall/Online
	Chairman: Engr. Prof. S. A. Abdulkareem Former VC, University of Ilorin, Kwara Moderator: Prof. Segun Ajayi Venue: Main Conference Hall
09:20 - 10:00	PS05 - State of the Art and Recent Progresses in Water and Wastewater Treatment Prof. Ir. Dr. Mohammed Saedi Jami , CEng, FICHEM, HOD, Department of Chemical Engineering & Sustainability, Faculty of Engineering, International Islamic University Malaysia (IIUM), Kuala Lumpur, Malaysia
10:20 - 10:50	Tea/Coffee Break/Networking Coffee Corner/Online
11:00 – 12:00	Breakout Technical Sessions IV
	Session Chair: Prof. Anselm Igbafe Rapporteur: Dr. Francis Asokogene Moderator: Dr. Sheriff Mustapha Venue: Hall Room 01
11:10 – 11:20	TS57 - Simulating the Safety Hazards due to Thermal Radiation from Refinery Flare System Shuaibu Musa and Usman Abubakar Zaria
11:20 – 11:30	TS58 - Application of Quaternary Composite Adsorbents Prepared from Selected Waste Plastic for Removal of Pesticide Mixture from Wastewater Sunday O. Oladunni, Dauda O. Araromi, Akeem O. Arinkoola, Funmilayo N. Osuolale, Oladipupo, O. Ogunleye, Wasiat O. Bello, Victoria, A. Adeyi, Adeola, R. Amole, Tinuade J. Afolabi, Abass O. Alade

CONFERENCE PROGRAMME

PERIOD	EVENT
11:30 – 11:40	TS59 - Air Quality Implications of Some Solid Wastes Incineration in Lagos Nigeria Jacob A. Sonibare and Abiodun J. Adewale
11:40 – 11:50	TS60 - Development of Ag2O-TiO2-Kaolinite Clay Hybrid Nanocomposite for Heavy Metal Laden Mining Wastewater Treatment Mary A. Ajala, Abdulsalami Kovo, Jimoh Tijani, Ambali Abdulkareem and Olawale Ajala
	Session Chair: Prof. S. E. Agarry Rapporteur: Dr. Olayinka Sanda Moderator: Dr. Mayowa Lala Venue: Hall Room 02
11:10 – 11:20	TS61 - Application of Machine Learning Xgboost Model for the Prediction of Dye Adsorption onto Agrowaste-Based Activated Carbons Abass O. Alade, Christopher I. Oni, Oladipupo O. Ogunleye, Samuel E. Agarry, Ganiyu K. Latinwo, Aminah A. Sulayman, Monsur O. Dauda, Teslim B. Asafa, Tinuade J. Afolabi and Sanni, A.O. Ogirima
11:20 – 11:30	TS62 - Optimization of Avocado Seed Oil Extraction using Five-Level Response Surface Methodology Design Saidat O. GIWA, Fatima ABDULLAHI, Olukayode OLOYEDE, Saidu IBRAHIM and Abdulwahab GIWA
11:30 – 11:40	TS63 - Design of Experiment as An Experimental Key in the Optimization of Oil Yield from Fluidized Catalytic Cracking of Oil Shale using Zsm-5 Catalyst B. O. Umeh, P.E. Dim, A. G. Olugbenga and M.B. Baba
11:40 – 11:50	TS64 - Profit Making through Pinch Analysis of Feed Gas Circuit in Liquefaction System of Natural Gas.. Babatunde O. OLALEYE, Micheal S. OLAKUNLE, Adegboyega S. OLAWALE
	Session Chair: Dr. Mutiu Amosa Rapporteur: Dr. O. J. Odejobi Moderator: Dr. Rafiu Yusuf Venue: Hall Room 03
11:10 – 11:20	TS65 - Valorization of Garcinia Kola Fruit Pod Extract as a Green Inhibitor for Mild Steel in Acidic Media Innocent O. Oboh, Joshua Adam and Anslem Igbafe
11:20 – 11:30	TS66 - Adsorption of Malachite Green onto Cellulose Synthesized from Baobab Pod Victoria A. Adeyi, Samuel E. Agarry, Adeola R. Amole, Wasiat O. Bello, Tinuade J. Afolabi, Azeez G. Akinyemi, Monsuru O. Dauda, Olufunmilayo A. Aworanti, Esther O. Awotona and Abass O. Alade
11:30 – 11:40	TS67 - Efficient High Temperature Acid Corrosion Protection of Ss 316L Stainless Steel using an Imidazole + Ki Inhibitor Mixture

CONFERENCE PROGRAMME

PERIOD	EVENT
	Kenneth K. Adama and Ikenna B. Onyeachu
11:40 – 11:50	TS68 - Characterization of Bambu Clay: As A Potential Source for Zeolite Y Synthesis Abdullahi A. Musa, Haruna M. Sani, Mohammed U. Garba, Elizabeth J. Eterigho, Mohammed Alhassan
	Session Chair: Prof. M. A. Olutoye Rapporteur: Dr. Abass Alade Moderator: Dr. Ayoade Adejumo Venue: Hall Room 04
11:10 – 11:20	TS69 - Design and Development of Arduino-Based Temperature Monitoring System for a Portable Haemodialysis System Aminah A. Sulayman, Dauda D.O. Araromi and Olugbenga Ayodele
11:20 – 11:30	TS70 - Assessing the Risks Due to Liquefied Petroleum Gas Plants using both and Qualitative Techniques Charles C. Anigbogu, Usman Abubakar-Zaria, Saidu M. Waziri
11:30 – 11:40	TS71 - Fuzzy Logic Control of Tomato Conversion in a Triple-Effect Evaporator Mojirade M. Oloruntoba and Folahan Ibitoye
11:40 – 11:50	TS72 - Exergy Analysis of a Novel Biodiesel Production Process Gbolagade I.Olajide and Mohammed Usman
Sectorial Group Meetings Main Conference Hall Students Session Hall Room	
13:10 - 14:30	Lunch Designated Dining Area
14:30 – 15:00	Preparation for AGM De Peace Hotel and other hotels (as applicable)
15:00 - 18:00	AGM Main Conference Hall
19:00 – 21:00	Dinner/Closing Main Conference Hall/Online
Sunday 13 November 2022 DAY FOUR	
06:00 - 12:00	Departure of invited Guests & Delegates