



2nd International Conference on Emerging Trends in Earth and Environmental Sciences

“ETEES 2020” Program

March 04-06, 2020

Organized by

COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES (CEES)

University of the Punjab Lahore, Lahore-54590, Pakistan

DAY 1: WEDSENDAY, MARCH 04th, 2020
ETEES 2020 OPENING CEREMONY
AT
PUNJAB UNIVERSITY LAW COLLEGE AUDITORIUM

Registration		09:00 AM
Opening Ceremony:	Recitation from the Holy Quran	10:15 AM
Welcome Address:	Prof. Dr. Sajid Rashid Ahmad Principal College of Earth and Environmental Sciences (CEES)	10:30 AM
Plenary Talk I:	THE ROLE OF EARTH AND ENVIRONMENTAL SCIENCES TO SOLVE INTERCONNECTED GLOBAL CHALLENGES AND EMERGING TRENDS IN ASIA AND THE PACIFIC REGION Prof. Dr. Shahbaz Khan, Director UNESCO, Regional Science Bureau for Asia and Pacific	10:45 AM
Plenary Talk II:	COMPOSTING OF BIO-WASTES: CHALLENGES, OPPORTUNITIES AND CONCERNS Prof. Dr. Ana Cristina Cunha Queda, University of Lisbon, Portugal	11:10 AM
Address by Guest of Honor:	Mr. Bao Muhammad Rizwan Honorable, Minister for Environmental Protection Punjab, Government of Punjab, Lahore	11:35 AM
Vote of Thanks:	Prof. Dr. Niaz Ahmad Akhtar Vice Chancellor, University of the Punjab, Lahore	12: 10 PM

--- LUNCH AND PRAYER ---

01:00 PM – 02:00 PM

DAY-1: WEDNESDAY, MARCH 4, 2020

TECHNICAL SESSION – I (02:00 PM – 06:00 PM)

Hall - A	Hall - B	Hall - C	Hall - D	Hall - E
Climate Change and Energy Management (CCEM)	Treatment Technologies (TT)	Environmental Toxicology (ET)	Sustainable Development & Urban Ecology (SDUE)	Sustainable Agriculture (SA)
SESSION OPENING & CHAIRED BY: Dr. Talib E. Butt CO-CHAIR BY: Prof. Dr. Kausar Jamal Cheema	SESSION OPENING & CHAIRED BY: Prof. Dr. Ana Cristina Cunha Queda CO-CHAIR BY: Prof. Dr. Abdullah Yasar / Muhammad Irshad Ramay	SESSION OPENING & CHAIRED BY: Prof. Dr. Riffat Naseem. Malik CO-CHAIR BY: Prof. Dr. Muhammad Arshad/ Dr. Masood Arshad	SESSION OPENING & CHAIRED BY: Dr. Arshad Ali (Professor Emeritus) CO-CHAIR BY: Prof. Dr. Faiza Shareef / Prof. Dr. Atif Yaqoob	SESSION OPENING & CHAIRED BY: Prof. Dr. Zaheer Ahmad Zaheer / Prof. Dr. Safdar Ali Anwar CO-CHAIR BY: Prof. Dr. Shafaqat Ali
KEYNOTE SPEAKER TALK GLOBAL CLIMATIC CHANGES-A THREAT FOR WATER RESOURCES IN PAKISTAN ^{1,2,3,*} Ghulam Zakir-Hassan, ^{2,3} Catherine Allan, ¹ Ghulam Shabir and ¹ Saleem Akhtar	KEYNOTE SPEAKER TALK CURRENT PRACTICES OF HOSPITAL HAZARDOUS WASTE MANAGEMENT AT RAWALPINDI AND ISLAMABAD [*] Ramay Muhammad Irshad, and Ahmed Rabeca	KEYNOTE SPEAKER TALK MULTIPLE STRESSORS AND POLLUTANT EXPOSURE IN BIRDS Veerle L.B. Jaspers	KEYNOTE SPEAKER TALK ENVIRONMENTAL ISSUES POSED BY PESTIFEROUS AQUATIC MIDGES (DIPTERA: CHIRONOMIDAE): A GLOBAL PERSPECTIVE AND SELECTED RESEARCH HIGHLIGHTS Arshad Ali	KEYNOTE SPEAKER TALK PHYTOPARASITIC NEMATODES IN SUSTAINABLE AGRICULTURE Anwar ^{*1} S.A., Abbas ² H., Kamran ³ M. and Qadir ⁴ A.
KEYNOTE SPEAKER TALK CLIMATE CHANGE IS AN OPPORTUNITY Ilhami Yildiz	KEYNOTE SPEAKER TALK TYPE VII REFUSE DERIVED FUEL PRODUCTION FROM MUNICIPAL SOLID WASTE OF LAHORE , PAKISTAN ^{1*} Munir, S, ² Nazir, I, ² Ahmad, SR, ² Jamil, N, ¹ Shahid, S, ¹ Rafique, A, ¹ Awais, M	SEDIMENT CORE AS “END POINTS” FOR POPS ENRICHMENT IN LIMNIC SYSTEM ¹ Rahat Riaz, ^{1*} Riffat Naseem Malik and ² Cynthia de Wit	TREE SURVEY IN CEMETERIES: AN INITIAL STEP TOWARDS A CLEAN & GREEN PAKISTAN ^{1*} Pervaiz, S., ² Khanm F.Z. and ³ Javid K	PHYTO-TOXICITY ANALYSIS IN WHEAT DUE TO OF FOOTBALL INDUSTRY WASTEWATER IRRIGATION ON WHEAT CROP Maria ¹ , Zahid Ali Butt ¹ , Muhammad Farhan ² , Maqsood Ahmad ³ , Amina Kanwal ^{1,*}
CLIMATE CHANGE AND GROUNDWATER NEXUS; SPATIOTEMPORAL VARIATIONS BASED SYNOPTIC SCALE STUDY FOCUSING SOUTHERN REGION OF KP PROVINCE PAKISTAN Sardar T ^{1*} , Khan M D ² , Xu A ³	ASSESSMENT OF ARSENIC CONTAMINATION IN DRINKING AND WASTEWATER SAMPLES OF DISTRICT KOHAT, KHYBER PAKHTUNKHWA, PAKISTAN ^{1*} Hadia Muattar Reham, ¹ Farah Deebah, ¹ Haziq Hussain, ² Ifthihar Ali, ¹ Sakeena Syed, ¹ Asim Rasool, ⁴ Irfan Ullah, ² Imran Khan, ¹ Muhammad Daud Khan	HEAVY METAL TOXICITY IN COMMERCIALLY IMPORTANT FISHES OF MANGLA DAM, AJK [*] Laila, U. and Shahid, A.I.	A PRELIMINARY STUDY ON SOME DYE YIELDING PLANTS OF LAHORE (CITY OF GARDENS) ¹ Pervaiz, S. and ² Khan, F.Z.	TOXICITY ASSESSMENT OF HEAVY METALS POLLUTION IN SOILS OF SOUTHERN DISTRICTS OF KHYBER PAKHTUNKHWA USING EARTHWORM ^{*1} Rasool, A., ² Ali, I., ¹ Hussain, H., ¹ Deeba, F., ¹ Khurshed, A., ¹ Reham, H.M., ¹ Syed, S., ³ Ullah, A., ¹ Ullah, N. and ¹ Khan, M.K.

Hall - A	Hall - B	Hall - C	Hall - D	Hall - E
<p>CLIMATE CHANGE IMPACTS ON PAST AND FUTURE WATER RESOURCES OF PAKISTAN: CURRENT STATE OF KNOWLEDGE, CHALLENGES AND OPPORTUNITIES</p> <p>*¹Jaweria Shamsad, ¹Sajid Rashid Ahmad, ¹Iftikhar Ahmad, ²Martijn J. Boonj</p>	<p>PIONEER ASSESSMENT REPORT OF PER-AND POLYFLUOROALKYL SUBSTANCES (PFAS) FROM TEXTILE WASTEWATER IN THE VICINITY OF LAHORE DISTRICT, PAKISTAN</p> <p>^{1*}Mehvish Mumtaz, ²Abdul Qadir and ¹Huang Jun</p>	<p>EXPOSURE OF TOXIC TRACE METALS IN AQUATIC AND TERRESTRIAL BIRDS OF PAKISTAN</p> <p>Mehmood, A., Ahmad, S.R., *Sheikh M.A. and Abbasi, N.A.</p>	<p>URBAN FORESTRY IN THE MEGA CITIES FOR THE RESTORATION OF ECOSYSTEMS</p> <p>Rashid M^{1*}, Gulzar S¹, Malik A M¹, Jail A²</p>	<p>PHYTOTOXIC AND GENOTOXIC RESPONSE OF MAIZE (<i>Zea mays</i>) GROWN IN HEAVY METALS CONTAMINATED SOIL</p> <p>¹Khursheed, A., ^{2*}Ali, I., Hussain H¹, Deeba F¹, Rasool A¹, Reeham HM¹, Syed S¹, Ullah A³, Ullah N¹, Khan MK¹</p>
<p>WATER SCARCITY UNDER CLIMATE CHANGE IN KUNHAR RIVER BASIN USING DIFFERENT APPROACHES</p> <p>^{1*}Muhammad Saifullah, ²Muhammad Zaman, ¹Alamgir A. Khan and ¹Sarfraz Hashim</p>	<p>EFFECT OF HRT ON COD REMOVAL FROM TANNERY WASTEWATER</p> <p>^{1*}Urooj, A., ²Nawaz. S., ³Chung, S., ¹Aslam, S. and ¹Tanveer, Y.</p>	<p>INVESTIGATION OF TOXICOLOGICAL IMPACTS OF CHLORPYRIFOS INSECTICIDE ON COLD WATER FISH <i>ONCORHYNCHUS MYKISS</i> IN OUTDOOR TEST SYSTEMS</p> <p>¹Mehtabidah Ali, ²Muhammad Majid, ³Tayyaba Naz, ⁴Muhammad Asim Riaz, ⁵Mahwish Ali, ¹Sundas Kali, ⁶Muhammad Mazhar Iqbal, ⁷Muhammad Rizwan Amir Khan, and ¹Mazhar Iqbal Zafar</p>	<p>URBAN JUNGLE: A CLIMATE MODIFIER IN THE URBAN AREAS</p> <p>^{1*}Mujahid, S., ¹Gulzar, S., ²Saeed, N. ¹Mahmood, I.</p>	<p>IMPORTANCE OF COLD FALLOW SEASON MANAGEMENT TO ENHANCE SOIL ORGANIC CARBON STOCK IN TEMPERATE PADDY SOIL</p> <p>^{1,2}Muhammad Israr Khan, ²Muhammad Daud Khan and ³Pil Joo Kim</p>
<p>PRODUCTION OF GASOLINE WITH HIGH QUALITY WITH HIGH OCTANE NUMBER BY USE OF BIFUNCTIONAL CATALYST Pt / Re IN CATALYTIC REFORMING PROCESS</p> <p>Menouar Hanafi</p>	<p>A STUDY BASED ON SPATIAL WATER ANALYSIS OF URBAN RIVER RAVI USING COST EFFECTIVE TECHNIQUE</p> <p>^{1*}Javid, K., ²Pervaiz, S. and ³Khan, F.Z.</p>	<p>ASSESSMENT OF ACUTE AND SUB-ACUTE TOXICITY OF LAMBDA CYHALOTHRIN ON GRASS CARP (<i>CTENOPHARYNGODON IDELLA</i>)</p> <p>Tayyaba Bashir and *Imran Hashmi</p>	<p>ROLE OF <i>GOMPHRENA GLOBOSA</i>, <i>NEMESIA STRUMOSA</i> AND <i>IMPATIENS BALSAMINA</i> IN THE BEAUTIFICATION AND RESTORATION OF ENVIRONMENT</p> <p>Maryam Nawaz, Sana Saeed, Madiha Ashfaq</p>	<p>AMELIORATIVE ROLE OF <i>ACINETOBACTER</i> SP. CS9 AGAINST LEAD STRESS IN <i>BRASSICA RAPA L</i></p> <p>Khan, W.U., ¹Ahmad, S.R., ²Yasin, N.A. and ³Ali, A.</p>
<p>IMPACT OF BELOW PAR SUPPLY OF ELECTRICITY ON SOCIO-ECONOMIC SECTOR OF PAKISTAN</p> <p>Syed Iazaz Ahmad Bukhari</p>	<p>HEAVY METAL CONTAMINATION IN WASTEWATER BODIES OF THE TWIN CITIES</p> <p>*Bashir, S., Zafar, R. and Arshad, M.</p>	<p>DETERMINATION OF AFLATOXIN CONTAMINATION IN BASMAT WHITE RICE SAMPLE COLLECTED FROM LOCAL SHOP OF LAHORE, PAKISTAN</p> <p>¹, ²Naseem Zahra*, ¹Nadia Jamil, ¹Sajid Rashid Ahmad, ²Imran Kalim and ²Muhammad Khalid Saeed</p>	<p>RESIDENTS' CHOICE: A CASE STUDY OF A HERITAGE SITE IN VIEW OF ITS ECONOMIC BENEFITS</p> <p>*Laila Shahzad, Anam Waheed, Faiza Sharif and Muhammad Umar Hayyat</p>	<p>BIOMARKERS- BASED VARIABLE RESPONSES OF ROOTS OF TRANSGENIC COTTON CULTIVARS AND THEIR HYBRID LINE UNDER CADMIUM STRESS</p> <p>* ^a, ^bDaud, M.K., ^cMuhammad Israr Khan, ^cMuhammad Tariq Khan, ^cAzizullah Azizullah, ^aRehan Naem, ^bMei Lei, ^b*Zhu Shui-Jin</p>
<p>DISTRESSING ELECTRICITY CRISIS OF PAKISTAN</p> <p>Mehak Yaseen and Syed Iazaz Ahmad Bukhari</p>	<p>EVALUATION OF ELECTROCOAGULATION AND CHEMICAL COAGULATION TREATMENTS FOR DYE REMOVAL IN TEXTILE INDUSTRIAL EFFLUENT</p> <p>Nabeela Firdous and Irfan Ahmed Shaikh</p>	<p>ANALYSIS OF VARIOUS HEAVY METALS IN WHEAT GRAINS, WHEAT FLOUR AND DUST COLLECTED FROM VARIOUS FLOUR MILLING SHOPS OF LAHORE, PAKISTAN</p> <p>*Tariq, A., Rafique, N. and Razzaq, W.</p>	<p>ANALYSIS OF ENVIRONMENTAL EDUCATION CONTENT IN SOCIAL STUDIES 6-8 GRADE'S TEXTBOOKS</p> <p>*¹Gul Bahar Chachar, ²Rabia Batool, ¹Irfan Ali Abro</p>	<p>PREFERENCES AND TRENDS IN CONSUMPTION OF ORGANIC AGRICULTURAL PRODUCTS BASED ON SOCIO-ECONOMIC CLASSES</p> <p>Kainat Khan, *Abdul Qadir and Rizwan Aziz</p>

HALL - A	HALL - B	HALL - C	HALL - D	HALL - E
<p>INVESTIGATION OF GEOMETRY ON THE ENERGY EFFICIENCY OF A HOUSE IN LAHORE.</p> <p>Malik, A.M., Awan, M.Y., Gulzar, S. and Rashid, M.</p>	<p>CONCERNS, PRACTICES AND WILLINGNESS TO PAY FOR MUNICIPAL SOLID WASTE MANAGEMENT OF HOUSEHOLDS NEAR OPEN WASTE DUMPSITES OF LAHORE</p> <p>*Aruba Mudasser, Yumna Sadef, Saamia Saif, Asim Mehmood, Nabeela Firdous</p>	<p>IMPACT OF OCHRATOXIN-A ON FOOD SAFETY: A CASE STUDY OF MAIZE GILLANI SWHS</p> <p>²Sadef, Y., ¹Asi, M.R.I., ¹Akhtar, M., ^{1,3}Hussain, S., ⁴Ghani, A., ¹Mustafa, M. and ¹Javed, M.</p>	<p>A COMPARATIVE STUDY ON THE EVALUATION OF SICK BUILDING SYNDROME AT VARIOUS WORKPLACES IN LAHORE</p> <p>*Ali, M., Zahid, A., Mahnoor and Tariq, A.</p>	<p>SEED PRIMING WITH TRIACONTANOL IMPROVES GROWTH OF <i>CORIANDRUM SATIVUM</i> THROUGH MODULATION OF PHOTOSYNTHETIC AND ANTIOXIDATIVE SYSTEM</p> <p>^{1*}Rehana Sardar, ¹Shakil Ahmed, ²Nasim Ahmad Yasin</p>
<p>INTEGRATING STRATEGIC ENVIRONMENTAL ASSESSMENT IN LAND USE PLANNING FOR RENEWABLE ENERGY PROJECTS IN PAKISTAN: STRENGTHS AND WEAKNESSES</p> <p>Hajra Javed, Asfra Rizwan, *Rizwan Rasheed, Muhammad Umar Hayyat and Faiza Sharif</p>	<p>ACIDIFIED COW DUNG-ASSISTED PHYTOEXTRACTION OF HEAVY METALS BY RYE GRASS FROM CONTAMINATED SOIL AS AN ECO-EFFICIENT TECHNIQUE</p> <p>¹Sana Ashraf, ²Sobia Ashraf, ²Qasim Ali, ²Zahir Ahmad Zahir and ¹Sajid Rashid Ahmad¹</p>	<p>AFLATOXIN DETERMINATION AND PROXIMATE ANALYSIS OF SELECTIVE PROCESSED FOOD: BISCUIT, FRUIT CAKES AND NOODLES SAMPLES IN LAHORE, PAKISTAN</p> <p>Yumna Sadaf and *Mohsin Rida</p>	<p>KEYNOTE SPEAKER TALK</p> <p>ECOTOURISM POTENTIAL IN PAKISTAN SPECIALLY NORTHERN AREAS</p> <p>¹Suhail Anjum, ²Azizan Marzuki and ³Viqar Husain</p>	<p>GROWTH AND PRODUCTION POTENTIAL OF QUINOA (<i>CHENOPODIUM QUINOA WILLD.</i>) UNDER VARYING DOSES OF SOIL APPLIED UREA</p> <p>^{1*}Muhammad Bilal Chattha and ²Muhammad Umer Chattha</p>
<p>SEASONAL VARIATION OF WATER QUALITY INDEX FOR RIVER RAVI: A CASE STUDY FROM UPSTREAM TO DOWNSTREAM OF LAHORE CITY</p> <p>*Aleem Butt and Sajid Rashid Ahmad</p>	<p>A STUDY ON KNOWLEDGE ATTITUDES AND PRACTICES ON SOLID WASTE MANAGEMENT IN UNIVERSITY STUDENTS</p> <p>*Tariq, A., Maidah and Ali, I.J.</p>	<p>PERFLUOROALKYL ACIDS: EMERGING POLLUTANTS IN THE ENVIRONMENT</p> <p>^{1*}Shafique, U., ¹Saeed, Z., ²Paschke, A. and ²Schüürmann, G.</p>	<p>CROSS SECTIONAL STUDY OF KNOWLEDGE, ATTITUDES AND PRACTICES OF LANDSCAPE PROFESSIONALS IN LAHORE: ARE WE ENVIRONMENTALLY FRIENDLY?</p> <p>^{1*}Rafia Zafar, ¹Sajid Rasheed Ahmad, ²Nawaz Chaudhry, ³Syeda Adila Batool and ⁴Sidra Safdar</p>	<p>MULTI NUTRIENT ENRICHED COMPOST USE FOSTERS SOIL PHOSPHORUS DYNAMICS; AN INITIAL ASSESSMENT OF SWITCHING TO INTERCROPPING FROM MONOCROPPING IN SEMI-ARID AGRICULTURE</p> <p>*Arif, M.S., Yasmeen, T., Riaz, M., Roohi, M., Ali, S. and Rizwan, M.</p>
	<p>BIOGAS PRODUCTION FROM MUNICIPAL SOLID WASTE AND AGRICULTURAL RESIDUE USING DRY ANAEROBIC DIGESTION TECHNIQUE</p> <p>*Asam, Z. and Khalid, A.</p>		<p>PREDICTION OF FOOD SECURITY LAND USE FUTURE THREAT OF USING THE MARKOV CHAIN & CELLULAR AUTOMATA BASED MODEL FOR LAHORE DIVISION PUNJAB, PAKISTAN</p> <p>*Nasir Farid and Sajid Rashid Ahmad</p>	<p>ABIOTIC STRESS TOLERANCE IN RICE</p> <p>^{1*}Muhammad Ashfaq, ¹Abdul Rasheed, ¹Muhammad Saleem Haider, ¹Muhammad Ali, ²Javed Iqbal, ³Shabnum Shaheen and ⁴Muhammad Sajjad</p>
	<p>WASTE CHARACTERIZATION AMOUNT SURVEY OF MUNICIPAL SOLID WASTE GENERATED IN SAHIWAL PUNJAB, PAKISTAN</p> <p>Samina Bilal and Sajid Rashid Ahmad</p>		<p>STUDY OF INTER-POPULATION WING SHAPE VARIATIONS IN BATS FROM PUNJAB, PAKISTAN USING GEOMETRIC MORPHOMETRICS ANALYSIS</p> <p>^{1,2}Zaira Ahmad, ¹Sajid R. Ahmad, ³Muddasir H. Abbasi, ⁴Nadeem Sheikh</p>	<p>EFFECT OF DIFFERENT PHOSPHORUS (P) SOURCES ON GROWTH, OXIDATIVE STRESS, ANTIOXIDANT RESPONSE AND CADMIUM AND P UPTAKE BY WHEAT</p> <p>^{1*}Muhammad Rizwan, ¹Shafaqat Ali, ¹Muhammad Zia ur Rehman, ²Aqsa Javed, ³Mazhar Rafique</p>

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	<p>POTENTIAL OF PISTIA STRATIOTES, EICHHORNIA CRASSIPES AND ALGAE FOR REMOVING CO AND NI AT VARIOUS CONCENTRATIONS</p> <p>*Iqra Azam, Mehak Shahid, Amtul Bari Tabinda and Abdullah Yasar</p>		<p>ENVIRONMENTAL Sustainability via Renewable Resources</p> <p>Sadia Naz and Maliha Uroos</p>	<p>24-EPIBRASSINOLIDE INDUCED NUTRITIONAL ORCHESTRATION IN <i>CUCUMIS SATIVUS</i> UNDER CADMIUM TOXICITY THROUGH MODULATION OF NON-ENZYMATIC ANTIOXIDANTS AND GENE EXPRESSION</p> <p>^{1*}Anis Ali Shah, ¹Shakil Ahmed and ²Nasim Ahmad Yasin</p>
	<p>BIOGAS PRODUCTION-A REVIEW ON FEEDSTOCKS, BIOCHEMICAL PARAMETERS, PROCESS TECHNOLOGY, BIOGAS AND DIGESTATE UTILIZATION</p> <p>*Sidra Shakil and Yumna Sadeef</p>			

DAY-2: THURSDAY, MARCH 5, 2020

TECHNICAL SESSION – II (09:30 AM – 1:00 PM)

(20 Minutes Tea Break in the Middle of Session – II)

Hall - A	Hall - B	Hall - C	Hall - D	Hall - E
Water Resource Management (WRM)	GIS and Remote Sensing (G&RS)	Occupational Health and Safety (OHS)	Bio-Remediation (BR)	Environmental Microbiology (EMB)
SESSION OPENING & CHAIRED BY: Prof. Dr. Shahbaz Khan CO-CHAIRD BY: Dr. Asif Khan / Dr. Muhammad Ashraf Mr. Mushtaq Ahmad Gill	SESSION OPENING & CHAIRED BY: Dr. Muhammad Riaz CO-CHAIRD BY: Dr. Arfa Lodhi / Dr. Rizwan Rasheed	SESSION OPENING & CHAIRED BY: Dr. Muhammad Akram CO-CHAIRD BY: Dr. Arashad Mahmood/ Dr. Mohsin Abbas / Ms. Asma Maqbool	SESSION OPENING & CHAIRED BY: Prof. Dr. Tehmina Anjum CO-CHAIRD BY: Dr. Muhammad Rafiq Aasi	SESSION OPENING & CHAIRED BY: Prof. Dr. Anjum Naseem Sabri CO-CHAIRD BY: Prof. Dr. Saleem Haider / Prof. Dr. Arfa Tahir
KEYNOTE SPEAKER TALK HYDROLOGICAL MODELLING NEEDS IMPROVEMENT IN THE HINDUKUSH-KARAKORAM-HIMALAYAS BASINS Asif Khan	KEYNOTE SPEAKER TALK GIS BASED FACTORS ANALYSES TO INVESTIGATE ARSENIC ELEVATED CONCENTRATION IN LAHORE AQUIFER *Malik Muhammad Akhtar and Rida Faisal	RISK OF ARSENIC EXPOSURE FROM DRINKING WATER ON HUMAN HEALTH OF DISTRICT D.G KHAN, PAKISTAN. ^{1*} Samita Arub, ¹ Sajid Rashid Ahmad, ² Zamir Ahmed Soomro	KEYNOTE SPEAKER TALK BIO-ASSIMILATION OF PB AND ZN IN ANIMALS CONSUMING CONTAMINATED LEAFY FEED [*] Murtaza, G., Hussain, T. and Zeeshan N	REMOVAL OF ORGANIC CARBON AND MICROBIAL CONTAMINATION THROUGH SOIL COLUMN [*] Bakhtawar Jokhio, Zubair Ahmed and Asif Jokhio
REUSE OF STORMWATER RUNOFF IN TEXTILE INDUSTRY: A SMART APPROACH FOR SUSTAINABLE DEVELOPMENT Muhammad Arslan, Ahmed Noman Zafar and [*] Irfan Ahmed Shaikh	GEOSPATIAL APPLICATIONS FOR TOPOGRAPHIC STUDIES BASED UPON BEDROCK GEOLOGY: A CASE STUDY OF ZIARAT DISTRICT, BALUCHISTAN, PAKISTAN [*] Hamza Amjad, Sajid Rashid Ahmad, Muzaffar Majid and Muhammad Asif Javed	ASSESSMENTS OF NEEDLE STICK INJURIES IN HEALTH CARE WORKERS IN HOSPITALS OF DISTRICT GUJRAT [*] Mohsin Abbas and Sidra Yahqoob	PHYTOREMEDIATION POTENTIAL OF GIANT REED (Arundo donax) USING BIOCHEMICAL AND MOLECULAR APPROACHES [*] Ullah, I., ² Ali, I., ³ Hussain, H. ⁴ Ullah, A., ³ Deeba, F., ¹ Khan, H., ³ Rehman, H., ⁵ Shah, S.M.I., ⁶ Shoaib, M, and ³ Khan, M.K.	BIOLOGICAL CONTROL OF HAEMONCHUS CONTORTUS BY ABOMASAL BACTERIA IN SMALL RUMINANTS [*] Khattak Baharullah and Nazish Asfa
EQUITABLE AND RELIABLE DISTRIBUTION OF WATER IN SECONDARY CANAL: A CASE STUDY OF MIR MINOR [*] Sabeen Manzoor, Abdul Latif Qureshi, Waqas Ahmed and Mahtab Ahmed	GEOSPATIAL CRIME ANALYSIS IN SOUTHERN HARIPUR TEHSIL, DISTRICT HARIPUR, KHYBER PAKHTUNKHWA, PAKISTAN ^{1*} Jamal, R., ² Ahmad, S.R., ³ Shafiq, M. and ⁴ Jamal, S.	ASSESSMENT OF EXISTING OCCUPATIONAL HEALTH & SAFETY (OHS) PRACTICES IN SURGICAL INSTRUMENT MANUFACTURING INDUSTRY IN DISTRICT SIALKOT [*] Mohsin Abbas and Momina Habib Ullah	BIOTRANSFORMATION OF TOXIC SELENIUM OXYANIONS INTO NONTOXIC ELEMENTAL FORM BY T. AESTIVUM USING BIO-FERTILIZERS [*] Siddiq, A. and Faisal, M.	HEAVY METAL TOLERANCE AND BIOSORPTION CAPACITY OF LACTIC ACID BACTERIA Mamoonah Hameed and Najma Arshad

Hall - A	Hall - B	Hall - C	Hall - D	Hall - E
<p>ANALYZING THE IMPACT OF HILL TORRENTS OF KOH E SULEIMAN MOUNTAINS ON THE FLOOD WATER OF RIVER INDUS</p> <p>*Maaz Saleem, Kamran Ahmed Ansari and Muhammad Arfan</p>	<p>GEOGRAPHICAL VARIABILITY IN GROUNDWATER ARSENIC CONCENTRATIONS IN INDUS BASIN, PUNJAB</p> <p>*Nisbah Mushtaq, Abida Farooqi and Alexander Van Geen</p>	<p>EXPOSURE OF BRICK KILN WORKERS TO HEAVY METALS AND ITS IMPACTS ON HUMAN HEALTH IN DISTRICT DERA ISMAIL KHAN (KPK) PAKISTAN</p> <p>¹Shah, S.M.I., ¹Rafiq, T, ²Usman, M, ³Ullah, I., ²Ullah, A. and ⁴Ali, I.</p>	<p>USE OF MACROALGAL BASED HYDRO-CHAR FOR ARSENIC (AS) REMOVAL</p> <p>Aisha Khan</p>	<p>ISOLATION OF BACTERIAL FAUNA FROM FEACAL SAMPLE OF WILD ANIMALS AT DIFFERENT CAPTIVE SITES FOR THEIR BETTER MANAGEMENT AND WELBEING</p> <p>*Bushra Nisar Khan, Aliza Faheem, Iqra Naeem, Syed Husnain Ali Asghar, Hafiz Muhammad Hashir, Yashwa Masih, Areeka Naveen</p>
<p>A GROUNDWATER TREATMENT SYSTEM FOR REMOVAL OF BACTERIA AND ARSENIC AT HOUSEHOLD LEVEL</p> <p>*Shehla Batool, Naveed Ali and Abida Farooqi</p>	<p>UTILIZATION OF REMOTELY SENSED THERMAL INFRA-RED SENSOR FOR DERIVING AIR TEMPERATURE OVER LARGE HETEROGENOUS SURFACE</p> <p>*Muhammad Ali, Benazeer Iqbal and Mohammad Sufyan</p>	<p>DUST-BOUND METALS EXPOSURE MAY TRIGGER OXIDATIVE STRESS AMONG CHROMITE MINE WORKERS IN BALOCHISTAN, PAKISTAN.</p> <p>Changaiz Khan, Muhammad Yasir, Abdur Rehman and *Riffat Naseem Malik</p>	<p>A PILOT SCALE STUDY OF MICROBIAL DEGRADATION OF PHENOL WITH RYEGRASS</p> <p>*Ashfaq, T. and Arshad, M.</p>	<p>ROLE OF BIOSURFACTANT PRODUCING BACTERIA ISOLATED FROM PRODUCED WATER IN HYDROCARBON DEGRADATION</p> <p>¹Dur-e-Shahwar, ¹Sajid Rashid Ahmad, ²Nazia Jamil, ¹Riaz Ahmad Sheikh</p>
<p>QUALITATIVE ASSESSMENT OF ROOFTOP RAIN WATER HARVESTING SYSTEMS IN MONSOON SEASON IN LAHORE</p> <p>Fariha Arooj and Maria Idrees</p>	<p>ADVANCE GEOSPATIAL TECHNIQUES FOR REAL TIME SMART FIBER MONITORING AND DEPLOYMENT SYSTEM (SFMDs)</p> <p>*Syed AbbasRaza Zaidi and Sajid Rashid Ahmad Muhammad Asif Javed and Muhammad Waqar</p>	<p>HEALTH RISK ASSESSMENT OF DUST EXPOSURE IN PEOPLE LIVING NEAR INDUSTRIAL AREAS</p> <p>Sidra Waheed and *Riffat Naseem Malik</p>	<p>UPTAKE AND TOXICITY ASSESSMENT OF ANTIBIOTIC IN PLANT</p> <p>*Zafar, M. and Arshad, M.</p>	<p>STRUCTURAL AND MUTATIONAL ANALYSIS OF HEMAGGLUTININ PROTEIN OF H9N2 VIRUS ISOLATED DURING 2016 TO 2018 FROM COMMERCIAL POULTRY IN PAKISTAN</p> <p>¹Rehman Shahzad, ^{*1}Saba Irshad, ²Faisal Amin, ¹Tooba Yaqoob, ²Bakht Sultan and ²Aleem Bhatti</p>
<p>SPATIAL ANALYSIS OF WATER CRISES AND ITS MANAGEMENT IN GWADAR CITY BY USING GEO-INFORMATICS</p> <p>*Arsla Khalid, Momina Anwar and Nashrah Naveed</p>	<p>SPATIAL ASSESSMENT OF SNOW LEOPARD HABITAT USING RS & GIS TECHNIQUES</p> <p>^{1*}Quratulain and ²Faiza Sarwar</p>	<p>COMPARISON OF SOCIAL COMPLIANCE PERFORMANCE REPORTING TRENDS AMONG NATIONAL AND INTERNATIONAL COMPANIES LISTED WITH THE PAKISTAN STOCK EXCHANGE</p> <p>*Ibrahim Arif, Sajid Rashid Ahmad and Azhar Ali</p>	<p>MODIFIED STRAWBERRY CALYX AS AN EFFICIENT ADSORBENT FOR NI(II) IONS ADSORPTION: A CENTRAL COMPOSITE DESIGN APPROACH FOR MULTIVARIATE SORPTION OPTIMIZATION</p> <p>¹Adnan Ahmed, ¹Sumita Bhatia, ²Ali Nawaz Siyal, ¹Amanullah Mahar[*]</p>	<p>WHEAT STRAW AMENDMENT HAS IMPROVED THE MICROBIAL ACTIVITY AND CARBON USE EFFICIENCY IN AZO DYES CONTAMINATED SOIL</p> <p>*Tahira Yasmeen, Aqeel Ahmad, Muhammad Saleem Arif, Ihsan Elahi, Muhammad Riaz, Shafaqat Ali, Muhammad Rizwan</p>
<p>ASSESSING MORPHOLOGICAL CHANGES OF RAVI RIVER AT LAHORE CITY UTILIZING GIS TECHNIQUE</p> <p>^{1*}Nisar, H., ¹Sarwar, F. and ²Zia, S.</p>	<p>GROUNDWATER POTENTIAL MAPPING USING REMOTE SENSING TECHNIQUES AND WEIGHTS OF EVIDENCE GIS MODEL: A CASE STUDY OF DISTRICT RAWALPINDI, PUNJAB</p> <p>*Muhammad Zakariya Ayub, Sajid Rashid Ahmad Muhammad Asif Javed and Muhammad Waqar</p>	<p>PREVALENCE OF WORK-RELATED MUSCULO-SKELETAL DISORDERS AND WORKSTATION CONFIGURATION AMONG SUPER MARKET CASHIERS</p> <p>Saba Rehman, *Farah Hussain, Dur-e-Nayab Tahir and Azhar Ali</p>	<p>REMOVAL OF METHYLENE BLUE DYE FROM AQUEOUS SOLUTION USING EGG SHELLS, DATE STONES AND PAPAYA SEEDS</p> <p>¹Mariya Kiran, ²Rafi -u- Zaman Brohi, ¹Adnan Ahmed, ¹Sumita Bhatia and ^{1*}Amanullah Mahar</p>	<p>ALLEVIATION OF CHROMIUM TOXICITY RELATED WITH INCREASED GROWTH AND PHOTOSYNTHESIS AND DECREASED IN OXIDATIVE STRESS OF CASTOR BEAN WITH COMBINED APPLICATION OF CITRIC ACID AND CR-RESISTANT MICROBES</p> <p>^{a,b*}Shafaqat Ali, ^cMuhammad Waseem, ^aAfzal Hussain, ^aMuhammad Rizwan and ^dAwais Ahmad</p>

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<p>ROLE OF GIS TECHNOLOGY TO IDENTIFY SUSCEPTIBLE WATER IN RUSH AREAS FOR PLANNING AND DESIGNING OF COAL MINES IN THE SALT RANGE, PAKISTAN</p> <p>¹Rizwan Saqib Bajwa ²Sajid Rashid Ahmad and ³Muhammad Waqar</p>	<p>HYPISOGRAPHICAL AND CLIMATE CHANGE ANALYSIS OF CHANGING SNOW COVER IN ASTORE RIVER BASIN FROM 2009 TO 2019 USING MODIS AND SRTM DATA</p> <p>¹Iqbal Hassan, ²Muhammad Asif Javed, ³Sajid Rashid Ahmad, ¹Rizwan Saqib, ³Adeel Ahmad, ⁴Muhammad Asif and ²Zahra Majid</p>	<p>OCCUPATIONAL STRESS ASSESSMENT AMONG MEDICAL AND PARAMEDICAL STAFF IN TERTIARY CARE HOSPITALS BASED ON OBSERVATIONAL STUDY</p> <p>Muhammad Maaz Arif, *Abdul Qadir and Sajid Rashid Ahmad</p>	<p>ANAEROBIC DEGRADATION OF MUNICIPAL ORGANIC WASTE AMONG OTHERS COMPOSTING TECHNIQUES IMPROVES N CYCLING THROUGH WASTE-SOIL-PLANT CONTINUUM.</p> <p>*¹Ghulam Mustafa Shah, ¹Nadia Tufail, ¹Hafiz Faiq Bakhat, ¹Muhammad Imran, ¹Behzad Murtaza, ¹Abu Bakr Umer Farooq, ¹Farhan Saeed, ¹Atika Waqar, ²Muhammad Intiaz Rashid</p>	<p>ASSESSING THE ROLE OF CHROMIUM RESISTANT <i>BACILLUS SUBTILIS</i> ISOLATE B3 IN ALLEVIATION OF CHROMIUM STRESS IN WHEAT PLANT CULTIVATED ON METAL CONTAMINATED SOIL</p> <p>Muhammad Waseem, Saima Muzammil, Shafaqat Ali and Muhammad Rizwan</p>
<p>ENVIRONMENTAL IMPACT OF WATER QUALITY ON FISH PRODUCTION IN HALEJI LAKE, DISTRICT THATTA, SINDH, PAKISTAN</p> <p>Naeem Tariq Narejo and Hameeda Kalhoro</p>	<p>IDENTIFICATION OF IRRIGATION POTENTIAL AREAS, USING MULTI-CRITERIA ANALYSIS IN KHYBER DISTRICT, PAKISTAN</p> <p>¹Muhammad Waleed, ¹Sajid Rashid Ahmad, ¹Muhammad Asif Javed, ²samiullah, ²Saifullah and ¹Zahra Majid</p>	<p>PHYSIOLOGICAL AND PSYCHOLOGICAL IMPACT OF NOISE POLLUTION ON THE WORKERS OF ALLAHWASAYA TEXTILE AND FINISHING MILLS</p> <p>Rabbia Abid</p>	<p>TOXICITY EVALUATION OF TANNERY EFFLUENT REMEDIATED BY CONSTRUCTED WETLAND TECHNOLOGY ON <i>CTENOPHARYNGODON IDELLA</i></p> <p>*¹Sobia Ashraf, ²Muhammad Afzal, ³Sana Ashraf, ³Sajid Rashid Ahmad, ¹Muhammad Naveed, ²Khadeeja Rehman, ¹Zahir Ahmad Zahir</p>	
<p>FLUCTUATION ANALYSIS OF GROUNDWATER LEVEL AND IRRIGATION WATER QUALITY</p> <p>¹Muhammad Sanaullah, ¹Sajid Rashid Ahmad, ¹Muhammad Riaz, ¹Wakas Karim Awan, ¹Wasif Yousof and ²Muhammad Kamran</p>	<p>CROP CLASSIFICATION USING SENTINEL-2 IMAGERY BY DEVELOPING CROP PHENOLOGY BASED ON NDVI THRESHOLDS (CASE STUDY OF DISTRICT SAHIWAL)</p> <p>*Muhammad Shoaib, Waqas Kareem Awan, Sajid Rashid Ahmad, Muhammad Asif Javed, and Misbah Noureen</p>	<p>ANALYSIS OF HEALTH AND SAFETY MANAGEMENT, CONDITIONS IN THE CONSTRUCTION SECTPOR OF PAKISTAN</p> <p>¹*Abubakar Riaz, ¹Shaukat Ali, ¹Sajid Rashid Ahmad, ¹Azhar Ali, ¹Imran Shahbaz, and ²Konstantinos Evangelinos</p>		
	<p>URBAN ENVIRONMENT RANKING BY USING GEOSPATIAL TOOLS AND TECHNIQUE- A CASE STUDY OF PUNJAB, PAKISTAN</p> <p>²Urooj Saeed¹, ²Sajid Rashid Ahmad, ¹Sahar Mirza, ¹Hira Jannat Butt, ¹Farkhanda Akmal and ¹Ahmad Raza</p>	<p>STUDIES FOR THE HEALTH RISK ASSESSMENT AMONG WORKERS OF FUEL STATION OF LAHORE AND GUJRAT DISTRICTS</p> <p>¹Butt, F., ¹Cheema, K. J., ¹Nisar, N. and ²Qureshi, J. A.</p>		
	<p>ANALYSIS OF MULTI SPECTRAL IMAGES ON CURRENT & FUTURE DYNAMICS OF URBAN LANDUSE CHANGES AND ITS IMPACT ON LAND SURFACE TEMPERATURE</p> <p>*Ayesha Ghaffar, Khurran Chuhaan, Sajid Rashid Ahmad and Muhammad Asif Jave</p>			

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	<p>MODELLING OF SEISMICITY IN SOUTHERN AND COASTAL SINDH USING GIS TECHNIQUES</p> <p>Khan, M.J.I., Khan, M. and Ali, S.S.</p>			
	<p>DEFINITION OF URBAN LIMITS USING INTEGRATED SPATIAL APPROACH - PUNJAB LOCAL GOVERNMENT ACT 2019</p> <p>Urooj Saeed, Khalid Sherdil, Sajid Rashid Ahmad, Imtiaz Younas</p>			
	<p>IDENTIFICATION OF GREEN SPACES TO SEQUESTER THE CARBON AND INCREASE TREE COVER OF LAHORE</p> <p>Ashraf Irfan, Ahmad Sajid Rashid, Atiq Mohsin*</p>			
<p style="text-align: center;">-----LUNCH----- 1:00 PM – 02:00 PM</p>				

DAY-2: THURSDAY, MARCH 5, 2020

TECHNICAL SESSION – III (02:00 PM – 06:00 PM)

(20 Minutes Tea Break in the Middle of Session – III)

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Nanotechnology (NT)	Plastic Pollution (PP)	Environmental Monitoring and Risk Assessment (EM&RA)	Environmental Geology (EG)	Green Chemistry (GC)
SESSION OPENING & CHAIRED BY: Dr. Saqib Nawaz / Dr. Ching Chu CO-CHAIR BY: Dr. Soniya Munir	SESSION OPENING & CHAIRED BY: Prof. Dr. Riffat Naseem Malik CO-CHAIR BY: Dr. Abdul Sattar Nizami / Dr. Zaki uz Zaman	SESSION OPENING & CHAIRED BY: Prof. Dr. Viqar Hussain CO-CHAIR BY: Prof. Dr. Sohail Anjum Dr. Mujtaba Baqir	SESSION OPENING & CHAIRED BY: Dr. Muhammad Tahir Rasheed CO-CHAIR BY: Prof. Dr. Muhammad Nawaz Ch.	SESSION OPENING & CHAIRED BY: Prof. Dr. Jamil Anwar CO-CHAIR BY: Prof. Dr. Amtul Bari Tabinda / Dr. Saba Irshad
SYNTHESIS OF GREEN SILVER NANOPARTICLES AND COMPARISON OF THEIR ANTIMICROBIAL EFFECTS ^{1,2} Myra Javed *, ¹ Marium Fiaz, ^{1,3} Rabea Zafar and ¹ Muhammad Arshad	KEYNOTE SPEAKER TALK SURVEILLANCE OF PLASTIC POLLUTION ON ECOLOGICAL INTEGRITY OF RIVER RAVI AND RIVER CHENAB, PAKISTAN *Abdul Qadir, Mehmood Aslam, Saba Hafeez, Muhammad Salman Rehmat, Hafiz Umar Aslam, Muhammad Irfan, Mehwish Mumtaz and Sajid Rashid Ahmad	KEYNOTE SPEAKER TALK ENVIRONMENTAL RISK ASSESSMENT–THE ONLY WAY-OUT FOR A SAFE REDEVELOPMENT OF BROWNFIELDS Talib E. Butt	KEYNOTE SPEAKER TALK SEDIMENTS ASSESSMENT FOR ARSENIC SOURCE DELINEATION: HOLOCENE ALLUVIAL AQUIFERS OF INDUS DELTA, SINDH, PAKISTAN *Adnan Khan and Viqar Husain	EVALUATION OF DIFFERENT NON-WOOD RAW MATERIALS AS AN ALTERNATIVE OPTION FOR PAPER PRODUCTION [*] Sohail, S., Ahmad, S.R., Abbasi, N.A. and Laila, U
PREPARATION, CHARACTERIZATION AND DEGRADATION POTENTIAL OF POLYSTYRENE FE-ZNO/CLAY NANOCOMPOSITE *Wajeeda Saleem and Muhammad Nawaz Chaudhary	ECOTOXICOLOGICAL ASSESSMENT OF BISPHENOL A (BPA) IN SOIL USING NATIVE SPECIES OF EARTHWORM ¹ Sakeena Syed, ¹ Haziq Hussain, ² Ifthihar Ali, ¹ Farah Deeba, ¹ Asim Rasool, ⁴ Irfan Ullah, ² Imran Khan, ¹ Hadia Muattar Reham, ^{1*} Muhammad Daud Khan	KEYNOTE SPEAKER TALK ARSENIC-FLUORIDE AND SEWAGE CONTAMINATED AQUIFERS IN SINDH PROVINCE OF PAKISTAN AND IMPACT ON HUMAN HEALTH ¹ Viqar Husain and ² Ghulam Murtaza Arain	NEW RESULTS OF PHYSICAL MODELLING OF THE SALT RANGE AND POTWAR PLATEAU: EVOLUTIONARY STRUCTURAL MODEL Shah Faisal	SORPTION OF PHENOL FROM SYNTHETIC AQUEOUS SOLUTION BY USING DARACANA SANDERIANA BASED ACTIVATED CARBON ¹ Abbas, N., ² Jamil, N., ¹ Deeba F., ³ Tahir, M., ⁴ Hussain, N., ¹ Irfan, M., ³ Zaheer, M., ⁴ Aysha and ^{5*} Zaheer, F.
AN ENVIRONMENT FRIENDLY AND ENERGY EFFICIENT NANOTECHNOLOGY FOR THE TREATMENT OF SLAUGHTERHOUSE WASTEWATER ^{1*} Kiran Bukhari, ² Nasir Ahmad and ¹ Irfan Ahmed Shaikh	ASSESSMENT OF MICROPLASTIC POLLUTION IN WATER, SEDIMENTS AND FISHES COLLECTED FROM BALLOKI BARRAGE, RIVER RAVI Zainab Tariq, *Abdul Qadir, Muhammad Irfan and Mehwish Mumtaz	ENVIRONMENTAL ASSESSMENT – A TOOL FOR SUSTAINABLE DEVELOPMENT IN PAKISTAN *Azmat Beg, Muhammad Ashraf Bodla, Ahmad Husnain Bukhari and Moazzam Ali	CAMBRIAN STRATIGRAPHY AND SEDIMENTOLOGY OF THE CYANOBACTERIA-DOMINATED MICROBIAL CARBONATES IN THE NORTH CHINA PLATFORM Khalid Latif	MEDIUM CHAIN LENGTH POLY (3-HYDROXY ALKANOATES) SYNTHESIS BY HALOPHILIC BACTERIA *Khan, N. and Jamil, N.

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<p>PLANT BASED SILVER NANOCOMPOSITES FOR WATER TREATMENT</p> <p>¹*Hira Ashfaq, ²Amara Dar and ¹Lubna Sherin</p>	<p>AEROBIC BIODEGRADATION OF ENVIRONMENT FRIENDLY PLASTIC BAGS OF RENOWNED INTERENATIONAL, NATIONAL AND LOCAL BRANDS IN AN AQUEOUS ENVIRONMENT</p> <p>Shafia Farooq, Farzana Bashir and Yumna Sadef</p>	<p>HEALTH RISK ASSESSMENT OF POTENTIALLY TOXIC HEAVY METALS IN ECOSYSTEM ALONG RIVER CHENAB, PAKISTAN</p> <p>¹Memona Arooj, ²Ayesha Siddiqua and ²Yumna Sadef</p>	<p>EVALUATION OF ACID ROCK DRAINAGE POTENTIAL IN THAR COAL DEPOSIT AND MITIGATION/REGULATION OF ACID GENERATION, THAR BLOCK II, PAKISTAN</p> <p>Waqas Abdul Aziz, Nawab Muhammad Abid Zubair, Ali Iqtidar*</p>	<p>MICROWAVE ASSISTED SPECTROPHOTOMETRY DETERMINATION OF DRUG BY USING ECOFRIENDLY REAGENT IN PURE AND PHARMACEUTICAL FORMULATIONS</p> <p>Amina Mumtaz</p>
<p>REMOVAL OF ANTHRACENE USING SOIL-ACTIVATED CARBON COMPOSITE ADSORBENT IN A COLUMN STUDY</p> <p>¹*Asma Leghari , ²Raheel Ahmed Hakro and ²Zubair Ahmed</p>	<p>MICROPLASTIC POLLUTION AS A GLOBAL CHALLENGE</p> <p>Maryam Mehboob and Riffat Naseem Malik</p>	<p>ASSESSMENT AND MONITORING OF AMBIENT AIR QUALITY OF WASTE DUMPING SITES LOCATED NEAR LAHORE</p> <p>*Rimsha Fatima, Yumna Sadef, Saamia Saif, Asim Mehmood and Saman Jamil</p>	<p>ENGINEERING AND PETROGRAPHIC PROPERTIES OF DOLERITES AGGREGATE OF KIRANA HILLS OF SARGODHA, PUNJAB, PAKISTAN</p> <p>*Muzaffar, M.C, Chaudhry, M.N. and Ahmad, S.R.</p>	<p>ACTIVATION OF NATURAL COAL FOR SOLID PHASE EXTRACTIVE PRECONCENTRATION OF PB(II) IONS PRIOR TO ITS TRACE DETERMINATION IN AQUEOUS SAMPLES BY FAAS</p> <p>¹Adnan Ahmed, ¹Sumita Bhatia, ²Ali Nawaz Siyal and ^{1*}Amanullah Mahar,</p>
<p>APPLICATION OF TITANIA NANOPARTICLES TO STUDY THE NUTRIENTS MOBILIZATION AND GROWTH RESPONSE IN <i>ORYZA SATIVA</i></p> <p>Zainab Zahid and *Muhammad Arshad</p>	<p>A PRELIMINARY ESTIMATION OF PLASTIC CONSUMPTION PER CAPITA USING PLASTIC CALCULATOR</p> <p>Umaid Hassan, Kanza Anwar, Anum Aslam and *Abdul Qadir</p>	<p>EVALUATION OF ENVIRONMENTAL INFLUENCE OF ARSCENIC COMPOUNDS ON PATIENTS SUFFERING FROM TYPE 2 DIABETES</p> <p>¹Zartash Mustafa, ¹Shabina Gull and ^{2*}Samreen Riaz</p>	<p>EVALUATION OF KALABAGH BRIDGE TERRACE AND MARI INDUS GRAVEL AS AN AGGREGATES</p> <p>*Muzaffar, M.C., Chaudhry, M.N. and Ahmad, S.R.</p>	<p>INVESTIGATION OF OXIDATION MECHANISM OF FLUOXETINE; AN ANTIDEPRESSANT DRUG, BY GLASSY CARBON ELECTRODE AND ITS ELECTROCHEMICAL DETECTION BY MOLECULAR IMPRINTED POLYMER MODIFIED GLASSY CARBON ELECTRODE</p> <p>Momina Feroz</p>
<p>COLLOIDAL STABILITY EVALUATION OF GOLD NANOPARTICLES SYNTHESIZED THROUGH AQUEOUS AND IONIC LIQUID ASSISTED OIL PALM LEAVES EXTRACT</p> <p>¹*Muhammad Irfan, ^{2,3}Muhammad Moniruzzaman, ²Tausif Ahmad, ¹Farzana Bashir, ¹Naeem Abbas, ¹Muhammad Tahir Butt, ⁵Amna Younas and ⁴Amir Shafeeq</p>	<p>INVESTIGATION OF THE EFFECT OF MIXING AGRICULTURE AND FURNITURE INDUSTRY WASTE TO PRODUCE COMPOST FROM ORGANIC FRACTION OF MUNICIPAL SOLID WASTE IN GUJRAT</p> <p>*Asam, Z. and Rifaqat, H.</p>	<p>IMPACT OF ENVIRONMENTAL RISK FACTORS ON THE CARDIOVASCULAR DISEASES</p> <p>Amna Ehsan</p>	<p>ENVIRONMENTAL HEALTH & SAFETY ISSUES ASSOCIATED WITH INDUSTRIAL ACTIVITY IN INDUSTRIAL ESTATE LAHORE</p> <p>*Majid, M., Haseeb, Z., Rana, A. and Khan, A.</p>	
<p>SYNTHESIS OF ZINC OXIDE NANOPARTICLES AND THEIR FUNCTIONALIZATION WITH CHRYSIN: EXPLORATION OF ITS APPLICATIONS</p> <p>¹Farida Shaikh, ²Adnan Ahmed, ²Sumita Bhatia and ^{2*}Amanullah Mahar</p>	<p>CHALLENGE OF MICROPLASTIC POLLUTION IN DRAINAGE SYSTEM OF LAHORE-PAKISTAN</p> <p>1Muhammad Irfan, 1Abdul Qadir, 2,1Mehvish Mumtaz and 1Sajid Rashid Ahmad</p>	<p>HUMAN EXPOSURE TO HEAVY METALS THROUGH ROAD-DUST IN VARYING TRAFFIC INTENSITY ROADS OF LAHORE</p> <p>*Zarish Imtiaz, Sajid Rashid Ahmad and Naeem Akhtar Abbasi</p>	<p>TRACE ELEMENTAL COMPOSITION OF COALS OF SALT RANGE, PUNJAB AS A PROXY TO RECONSTRUCT THE DEPOSITIONAL ENVIRONMENT</p> <p>*Noshin Masood, Abida Farooqi, Karen Hudson-Edwards</p>	

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<p>EFFICACY OF IRON OXIDE NANOPARTICLES FOLIAR APPLICATION ON WHEAT GROWN IN AGED CD CONTAMINATED SOIL UNDER TWO MOISTURE LEVELS</p> <p>¹Muhammad Adrees, ¹Zahra Saeed Khan, ²Muhammad Hafeez, ¹Muhammad Rizwan and ¹Shafaqat Ali</p>		<p>APPORIONING OF SELECTED HEAVY METALS IN ENVIRONMENTAL STRATA OF AJK, PAKISTAN</p> <p>Rizwan Ullah, Rehana Asghar, Adeel Mahmood, Mujtaba Baqar, Abdul Qadir, Syed Ali Musstjab Akber Shah Eqani</p>		
<p>SYNTHESIS OF ND-SUBSTITUTED LA₂SN₂O₇ PYROCHLORES NANOPARTICLES</p> <p>Abdul Quader, Ghulam M. Mustafa, Shahid Atiq, Saira Riaz and Shahzad Naseem</p>		<p>HEALTH AND ENVIRONMENTAL RISKS AWARENESS OF ARTIFICIAL SWEETENERS IN SELECTED POPULATION</p> <p>Fareena Jamshaid, Abdul Qadir and Rizwan Aziz</p>		
<p>ETHYLENE GLYCOL ASSISTED 3D FLORAL EVOLUTION OF BIFEO₃-BASED NANOSTRUCTURES</p> <p>Syed Kumail Abbas, Shahid Atiq, Ghulam M. Mustafa, Saira Riaz and Shahzad Naseem</p>		<p>CASE STUDY OF AIR QUALITY OVER NORTHEASTERN PAKISTAN DURING WINTER SEASON OF 2014 TO 2019</p> <p>*Muhammad Zeeshaan Shahid and Sajid Rashid Ahmed</p>		
		<p>A REVIEW ON CURRENT KNOWLEDGE AND FUTURE PROSPECTS OF SHORT CHAIN CHLORINATED PARAFFINS IN THE ENVIRONMENT: A NEGLECTED AREA OF RESEARCH IN SOUTH ASIA</p> <p>Areej Tahir, Sajid Rashid Ahmad and *Naeem Akhtar Abbasi</p>		
		<p>GLOBAL LAKES AND WETLANDS UNDER THE CHANGING SCENARIO OF EL-NIÑO SOUTHERN OSCILLATIONS AND ANTHROPOGENIC DRIVERS</p> <p>^{*1}Sana Ilyas, ¹Gensuo Jia, ¹Xiyan Xu and ²Anum Tariq</p>		

ETEES 2020 CLOSING / AWARDS CEREMONY

March 5, 2020 (05:30 PM – 06:40 PM)