

### 12-March-2018

12:00 HRS - Bus leaves HABLIS HOTELS, [19 GST Road, Guindy, Chennai 600 032](#); Ph: (91)44-2233 4000

13:00 HRS - 15:00 HRS: Visit to Mahabalipuram – Monolithic temple site: an UNESCO World Heritage site

17:00 HRS - Arrive Grand Serenaa Resort and Hotel

19:00 HRS - Welcome Drink and Dinner at Grand Serenaa Resort and Hotel

### 13-March-2018

**9:30 HRS-10:30 HRS: Inauguration**

**10:30 HRS-12:30 HRS**

Session - 1: Plenary Lectures (4 x 30min = 2 HRS)

Session Chair - *Tim D. DAVIS & Haruyuki FUJIMAKI*

**1.1 Desert Technologies in Coming Decades**

*Toshinori KOJIMA and Sanjay Kumar*

**1.2 Climate Resilience in Semi-Arid Tropical Agriculture: Challenges and Opportunities**

*Subhas WANI*

**1.3 Water Conservation and Efficient Use Under Dryland Conditions. Anything New?**

*W. A. Payne*

**1.4 Hydraulic Redistribution; Water Efflux from Roots Improves Soil Water Use Efficiency**

*Ken YOSHIKAWA*

LUNCH : (12:30 HRS-13:30 HRS)

**13:30 HRS-15:15 HRS**

Session - 2 : Arid Area Agriculture (1 x 25min+ 5 x 15min +5min = 1.45 hours)

Session Chair: *Yoshiko KAWABATA & Yuichi ISHIKAWA*

**2.1 Keynote: Perceptions of Early Greenseeder® Hand Planter Users: Implications for Global Diffusion**

*Lisa TAYLOR, Assoumane MAIGA and William RAUN.*

**2.2 Economic Use of *Prosopis juliflora* in South India and East Sudan**

*Takahiro SATO, Abdelmoneim Karamalla GAIBALLA and Shihabeldin Abdelhag ABDELGADER*

**2.3 Multiple Regression Analysis for Estimating Improvement Effects of Surface Ground Environment and Survival of Licorice (*Glycyrrhiza Uralensis* Fisch.)**

*Zentaro FURUKAWA, Noriyuki YASUFUKU, Kiyoshi OMINE, Atsushi MARUI, Indree TUVSINTOGTOKH and Bayart MANDAKH*

**2.4 Targeted Sequencing of SSR Markers and Herbicide Resistance Alleles in Grain Sorghum and Wild Relatives to Detect Gene Flow**

*Jacob ZIGGAFOOS, Mary HAPP, John WANG, Rodrigo WERLE, John LINDQUIST, Amit JHALA, David HYTEN and Melinda YERKA*

**2.5 Optimal Water use on Conventional Drip Irrigation System for Tomato Cultivation in Uganda**

*Bwire DENIS, Fumio WATANABE and Shinji SUZUKI*

**2.6 Effects of Ecological Factors on the Growth of Food Born Fungi Associated with Stored Dietary Items**

*Smriti GUPTA and Shishir K. VERMA*

TEA : (15:15 HRS-15:30 HRS)

**15:30 HRS-17:30 HRS**

Session – 3: Remote Sensing Applications (1 x 25min+ 6 x 15min +5min = 2 hours)

Session Chair: *Majed ABU-ZREIG & Seiichi SUZUKI*

**3.1 Keynote: Mangrove Monitoring and Evaluating in Nakhon Si Thammarat, Thailand by Remote Sensing and Spatial Technique**

*Suthira THONGKAO, Shigeru KATO, Savettachat BOONMIN, Sanit AKSORNKOAE, Kan CHANTRAPROOMA, Yuji SAKAI, Takuya ITO and Toshinori KOJIMA*

**3.2 Monitoring of Day Forest in Djibouti using Landsat and Sentinel-1 SAR imagery.**

*Sawahiko SHIMADA, Fadoumo A. MALOW, Ayako SEKIYAMA and Ryuji TACHIBANA*

**3.3 Times Series LANDSAT images to Examine Day Forest Dynamic Change (Djibouti)**

*Fadoumo A. MALOW, Sawahiko SHIMADA and Ayako SEKIYAMA*

**3.4 Verification of Availability of GSMaP Rainfall Data Based on the Comparison of Observed Rainfall Data in Africa**

- Yukimitsu KOBAYASHI, Fumio WATANABE, Shinji SUZUKI, Okiria EMMANUEL and Tom KANYIKE*
- 3.5 Aerial Photogrammetry and Three-dimensional Modeling of the Tottori Sand Dunes Using UAV  
*Tadaomi SAITO, Takayuki KAWAI, Koji INOSAKO and Hiroshi YASUDA*
- 3.6 Next Generation Tool for Disaster Management in Arid Areas: Bird Eye View Assistance System for Remotely Accessed Vehicles  
*Srishiti SINHA Naohisa HASHIMOTO and Simon THOMPSON*
- 3.7 Evolving Remote Sensing in Demarcation of Laterite Soil: A Case Study  
*Praveen KUMAR*

**DINNER AT YOUR OWN**

*18:00 HRS: Meeting of IDC members*

**14-March-2018**

**09:00 HRS – 10:45 HRS**

**Session 4: Arid and Desert Plantation (1 x 25min+ 5 x 15min +5min =1:45 hours)**

**Session Chair: Suthira THONGKAO & Shigeru Kato**

- 4.1 **Keynote: Active Ingredients from Aromatic and Medicinal Plants in Desert (Back to Nature)**  
*Hany A. EL-SHEMY*
- 4.2 Rehabilitation of Degraded Mangrove through Planting Mangrove in Southern Thailand  
*Shigeru KATO, Suthira THONGKAO, Savettachat BOONMIN, Sanit AKSORNKOAE, Kan CHANTRAPROOMA, Yuji SAKA, Takuya ITO and Toshinori KOJIMA*
- 4.3 Elucidation of Eucalyptus Root Growth Mechanism by Application of Electric Field - Effect of Electric Field Application Time and Plant Hormones  
*Kazuki SUGAWARA, Syoyou KANNO, Takuya ITO, Shigeru KATO, Toshinori KOJIMA and Seiichi SUZUKI*
- 4.4 Germination and Morphological Features of Bluestem Joint Fir (*Ephedra Equisetina*) Seeds Under Different Led Light Conditions  
*Berdiyar JOLLIBEKOV, Jing-ai CHE, Shiho KAGAMI, Akihito TAKANO, Takahisa NAKANE, Masaaki YAMADA, Yoshiko KAWABATA and Isao OGIWARA*
- 4.5 Structure of Subterranean Tree Form Buried Sand on *Juniperus Sabina* L. Grown on the Fixed Sand Dune at Semiarid Region in China  
*Yasuki HORIUCHI, Satoshi TADOKORO, Aoi KAMEI, Fumiaki SHIRAI, Guosheng ZHANG, Naoko H. MIKI, Atsushi NAKASHIMA and Ken YOSHIKAWA*
- 4.6 Soil Reclamation Using Vermicompost  
*Vikash CHANDRA, Jyoti MISHRA and A.K. SHARAN*

**TEA BREAK (10:45 HRS – 11:00 HRS)**

**11:00 HRS – 13:00 HRS: Session -5**

**Environmental Mitigation Technology (1 x 25min+ 6 x 15min +5min = 2 hours)**

**Session Chair: Mingyuan DU & Sawahiko SHIMADA**

- 5.1 **Keynote: Detection of Environmental Regime Shifting in Semi-Arid Region and Simulation of Dust Emission from Dry Land**  
*Buho HOSHINO, Yuki SOFUE, Yuta DEMURA, Kenji BABA, Tsendendamba PUREVSUREN and Kenji KAI*
- 5.2 Approaches for Mitigation of SDS (Sand and dust storms) in Kuwait  
*Raafat MISAK*
- 5.3 Salinity Management under a Capillary-driven Automatic Irrigation System  
*Haruyuki FUJIMAKI, Mitsuhiro INOUE, Naoki IKEGUCHI and Ryu NAKAI*
- 5.4 Raw and Apatite-Synthesized FA Amendment as Soil Water Retention Agent  
*Shenglei LIN, Mengzhu SONG and Fumitake TAKAHASHI*
- 5.5 Effect of Waste Concrete on Chemical Properties of Salt-affected Soil in China  
*Yuji SAKAI, Atsushi OKADA, Hiroki SHIGA and Chang WANG*
- 5.6 Salt Removal Technology by Shallow Sub-surface Drainage in Combination with Cut-drain  
*Yukio OKUDA, Junya ONISHI, Yulia I. SHIROKOVA, Iwao KITAGAWA, Yoshinobu KITAMURA and Haruyuki FUJIMAKI*
- 5.7 Ecophysiological Strategies of Halophytes and its Use in Phytoremediation of Marginal Saline Lands in Arid Zone  
*Elena SHUYSKAYA, Kristina TODERICH, Marina LEBEDEVA and Norikazu YAMANAKA*

LUNCH BREAK: (13:00 HRS-13:45 HRS)

**13:45 HRS – 16:00 HRS**

**Session 6: Desert Energy & Environmental Technology (1 x 25min+ 7 x 15min +5min = 2.15 hours)**

**Session Chair: Vikash Chandra & Fumio WATANABE**

**6.1 Keynote: Utilization of Waste Plastic as Aggregate in Concrete Production**

*Nabajyoti SAIKIA*

**6.2 Formulation of Gasification Rate of Char from *Eucalyptus Camaldulensis* Grown in Arid Land on Western Australia**

*Wooih CHOO, Takashi HAYASHI, Chihiro OHASHI, Kazuki SUGAWARA, Takuya ITO, Seiichi SUZUKI, Shigeru KATO and Toshinori KOJIMA*

**6.3 Chemical Nature of The Stabilized Structural Fill Derived from Coal Combustion Byproducts**

*Sidhartha PATTANAIK*

**6.4 Feasibility Study on Distillation Process of Saline Water in Step Basin V- type Solar Still for Semi- Arid Regions**

*Jayaprakash RAJAN, Prakash ARJUNAN, Sanjay KUMAR, Robert RAJENDRAN, Gopi SOMASUNDARAM and Dilip RAVIKUMAR*

**6.5 Assessment of Environmental Impacts of Lead Smelting Slag Using pH Dependent Leaching Test**

*Mousumi BORAH and Nabajyoti SAIKIA*

**6.6 CFD Analysis of Floating Porous Absorber in Solar Still with Bubble-Wrap Insulation for Desalination**

*Thirugnanasambantham ARUNKUMAR, Ramalingam VELRAJ, David DENKENBERGER*

**6.7 Effect of Additions of Transition Metal Compounds on the Pyrolytic Thermo-kinetic Behaviour of a Bamboo Based Biomass**

*Hari Prasad NATH, Manabjyoti SAIKIA and Nabajyoti SAIKIA*

**6.8 Exergy Analysis of Pyramid Wick-Type Solar Still for Maximum Evaporation**

*A.PRAKASH, Jayaprakash RAJAN and Sanjay KUMAR*

TEA BREAK (16:00 HRS – 16:15 HRS)

**FREE TIME**

DINNER AT YOUR OWN

**15-March-2018**

**9:00 HRS: Departure to St. Joseph College of Sc. and Arts, Cuddalore**

**10:00 HRS – 10:45 HRS – Welcome address**

**10:30HRS – 11:00 HRS – Poster Display**

**11:00 HRS – 12:45 HRS**

**Session -7: Arid Area Agriculture: Country Report (1 x 25min+ 5 x 15min +5min = 1.45 hours)**

**Session Chair: S.N.P.Singh & Kristina TODERICH**

**7.1 Keynote: Priorities for Investment in Public Research and Extension Capacity for Improved Fodder and Forage Production in Arid and Semi-Arid Afghanistan**

*Carmen N. BYCE, Terry K. HUTCHENS and Tim D. DAVIS*

**7.2 Appraisal of the Potential of Quinoa for the United Arab Emirates**

*Abdullah ALSHANKITI, Mohammed SHAHID and Eiichi ONO*

**7.3 Recent Changes of Climate and Livestock Productions on the Tibetan Plateau and in Situ Observations of Nee**

*Mingyuan DU, Yingnian LI, Fawei ZHANG, Liang ZHAO, Hongqin LI, Ben NIU, Yongtao HE, Xianzhou ZHANG, Seiichiro YONEMURA and Yanhong TANG*

**7.4 Cattle Entrustment Among Agro-Pastoralists in Dodoma, Tanzania**

*Yoko ICHIJO*

**7.5 Triticale Germplasm Diversity for Improving Food and Nutrition Security in Marginalized Environments**

*Zulfiya SULTANOVA, Hurliman SULTANOVA and Ajiniyaz ABDULLAEV*

**7.6 Protective Influence of Zinc on Gills Histopathologies Induced by Cadmium in *Heteropneustes Fossilis* (Bloch)**

*Shruti KUMARI and B.S. JHA*

12:45 HRS– 13:30 HRS - LUNCH BREAK

13:30 HRS– 15:15 HRS

Session 8: Renewable Energy Technology (1 x 25min+ 5 x 15min +5min = 1.45 hours)

Session Chair: C. Sudarshan & Rafat MISAK

- 8.1 Keynote: Solar Electricity for Cooking in Rural and Urban Areas of Nepal  
*Jagan Nath SHRESTHA*
- 8.2 Assessments of Pyrolytic Thermal Decomposition Mechanisms and Kinetics of Biomass–Subbituminous Coal Blends using Iso-conversional Methods  
*Kaberijyoti KONWAR, Mousumi BORAH, Rashmi KALITA, Upasona NATH and Nabajyoti SAIKIA*
- 8.3 Comparative Analysis of Double Slope and Pyramid Top Covers of Passive Type Single Basin Solar Stills with their Thermo Physical Properties  
*Ahitha MANISEKARAN, A. RAMALINGAM and Jayaprakash RAJAN*
- 8.4 Multi Reflector PV Solar Chulha Integrated with Six Point Sun Tracking and Cooling Technique  
*P. U. SUNEESH, N. SHAJIL and Sanjay KUMAR*
- 8.5 The Effect of Thermosyphon Process to Augment the Distillate Yield in Single Slope Solar Still Linked with Compound Conical concentrator  
*Robert RAJENDRAN, Jayaprakash RAJAN and Sanjay KUMAR*
- 8.6 Performance of 2m<sup>2</sup> Floating Wick with Planar Distribution Effect of Solar Desalination for Arid Regions  
*Suresh NATRAYAN, Jayaprakash RAJAN and Sanjay KUMAR*

15:15 HRS– 16:00 HRS: TEA BREAK AND POSTER PRESENTATION -1

16:00 HRS– 17:45 HRS

Session 9: IRRIGATION Technology (1 x 25min+ 5 x 15min +5min = 1.45 hours)

Session Chair: Seemin RUBAB & Abdullah ALSHANKITI

- 9.1 Keynote: The Water Quality of The Aral Sea in Uzbekistan, Central Asia  
*Yoshiko KAWABATA, Vyacheslav APARIN, Berdiyur JOLLIBEKOV, Mitusko WATANABE, Tesuo CHIDA, Jumpei KUBOTA, Nikolai ALADIN and Yukio KATAYAMA*
- 9.2 On-Farm Rainfall Harvesting in Jordan  
*Majed ABU-ZREIG*
- 9.4 Salt Pushing Effect to the Side of Ridge by Fixed Skip Furrow Irrigation - Case Study in the Republic of Uzbekistan  
*Junya ONISHI, Yukio OKUDA, Gaukhar K. PALUASHOVA, Yulia I. SHROKOVA, Yoshinobu KITAMURA, and Haruyuki FUJIMAKI*
- 9.5 Practice of Water Saving Irrigation in the Central Dry Zone in Myanmar  
*Naoya FUJIMOTO*
- 9.6 Improvement of Irrigation Technology on Furrows on Saline Lands of the Lower Reaches of the River Amu Darya. Case Study from Uzbekistan  
*Gauharay PALUASHOVA and Yulia SHIROKOVA*

18:00 HRS-19:30 HRS – Cultural program

19:30 HRS – 20:30 HRS – Conference Dinner

20:30-Bus will leave for Grand Serenaa Resort and hotel

16-March-2018

9:15 HRS – 11:00 HRS

Session 10: Future Technology (1 x 25min+ 5 x 15min +5min = 1.45 hours)

Session Chair: Prof. Toshinori Kojima & Prof. W. A. Payne

- 10.1 Keynote: Helium Pressure Dependent Synthesis Ratio of La@C82 and Empty Fullerene Cages  
*Sapna Sinha and Kyriakos Porfyarakis*
- 10.2 Fibre Optic Mercury Sensing Using Gold Nanoparticles  
*C. SUDARSANKUMAR*
- 10.3 Nanotechnology for Sustainability: Clean Water and Energy  
*Kirubha and Seemin RUBAB*

- 10.4 Theoretical Investigation of Solitary Waves in a Nonlinear Media for Remote Desert Area Data Communication  
*Rakhee MALIK, Jyoti and Manoj KUMAR*
- 10.5 Effect of Organic Additives on the Leaching Behaviour of Oxyanions of Cr, Mo and Se from Cement Solidified Synthetic Sludge  
*Shiwani BARUAH and Nabajyoti SAIKIA*
- 10.6 IoT based Smart Warehouse  
*Pranav SINGH, Md Ekramul HASSAN and Nirmal RAI*

11:00 HRS: Closing address and report by Chairperson, Sangeeta Sinha

12:00 HRS – 12:45 HRS - Lunch

13:00 HRS – Departure for Chennai. Bus will stop at the Anna University, Chennai Airport and Hotel Hiblis

**Poster Session -2:**

**March 15, 2018: 10:30 HRS - 11:00HRS: Poster Display (Preferred size – 75cm x 100cm)**

**15:15 HRS - 16:00 HRS: Interaction/presentation**

- P-1: Model Predictive Approach to Cooperative Vehicle Speed Control for Manual/Auto Mixed Platoon  
*Srishti SINHA, Hyuntai CHIN, Hiroyuki OKUDA and Tatsuya SUZUKI*
- P-2: Path Tracking Control Using Model Predictive Approach With ON GPU Implementation for Autonomous Driving  
*Arun MURALEEDHARAN, Hiroyuki OKUDA and Tatsuya SUZUKI*
- P-3: Sustainable Rural Development Through Watershed Management: A success story of Damoh  
*Dharmendra DHAKADIYA, Prakash Kumar GAUTAM, Kuldeep RATHORE, Sushil LANJESHWAR, Amit ARELE, Rahul BARDIA*
- P-4: Pradhan Mantri Awas Yojana: A Case Study on its Impact in Arid Areas  
*H. S. MEENA, Prakash Kumar GAUTAM, Dharmendra DHAKADIYA, Anshul SINGH, Pratiman, Deepanshu*
- P-5: Big Data for Remote Sensing - The Big Prospects and Restraints  
*Rashmi CHOUDHARY*
- P-6: Low Temperature Solar Dryer for Soft and Leafy Herbs, Fruits and Vegetables of Arid areas  
*Rima KUMARI, Syed Haneef BALKHI, Shilpa CHOUDHARY and Sanjay KUMAR*
- P-7: Characterization of a Few Biomass Species for Possible Energy Recovery  
*Hari Prasad NATH, Bibekananda GOGOI and Nabajyoti SAIKIA*
- P-8: Conversion of Waste Cooking Oil into Bio-diesel using Solid Catalysts derived from Waste Materials  
*Gaurav Pratim GOSWAMI, Maitreyee Sarma BEZBARUA and Nabajyoti SAIKIA*
- P-9: Mangrove in Western Madagascar  
*Atsushi.NAKASHIMA, Ryuichi.TACHIBANA, Shingo.TANIGUCHI, Akira.KOMIYAMA and Ken.YOSHIKAWA*
- P-10: Evaluation of Measurement Precision for UAV Imagery Based on Structure from Motion  
*Ayako SEKIYAMA, Takahiko KUBODERA, Koji MIWA, Hiromu OKAZAWA, Toru NAKAJIMA, Chikahiro EGAMI*
- P-11: Transferring Agricultural Heritage to Host Society: Case Study of Japanese Family Farms in the Brazilian Amazon  
*H. M. UMEMURA, S. KAGAMI, A. CHITOSE, E. INOUE, Y. KAWABATA and M. YAMADA*
- P-12: Study on Utilization of a Dilapidation Farmland in Coastal Sand Area by Fast-Growth Will (*Salix Spp.*)  
*Shota NAGASAWA, Atsushi HAYAKAWA, Tadashi TAKAHASHI, Yasuji KURIMOTO, Hideo SUGIMOTO, Yuji AOKI, and Shigeru SATOH, Shin HIDAHA and Yuichi ISHIKAWA*
- P-13: Traditional Dairy Products from the Stock Farmers of Inner Mongolia

*Mariko.YUZAKI and Chao.GEJILETU*

- P-14: Improvement of Water Harvesting Efficiency Using Soil Water Repellency in Samburu, Kenya**  
*Samuel Kipkemoi KIRUI, Fumio WATANABE, Shinji SUZUKI and Ryusei SOUMA*
- P-15: Investigation of Bio-Degradable Organic Species for Redox Flow Battery**  
*Seiichi SUZUKI, Takuya USUKI, Kazuki SUGAWARA, Takuya ITO, Shigeru KATO, Hideki SUGANUMA and Toshinori KOJIMA*
- P-16: Growth Analysis of Trees Planted In Dry Area of Western Australia**  
*Takuya ITO, Hideki SUGANUMA, Ryota ASAOKA, Kazuki SUGAWARA, Shigeru KATO, Seiichi SUZUKI and Toshinori KOJIMA*
- P-17: Numerical Analysis of Water Movement in Arid Land for Afforestation**  
*Yuki TAKAHASHI, Yui RYOTA, Syusei AIBA, Kazuki SUGAWARA, Seiichi SUZUKI, Takuya ITO, Shigeru KATO, Hideki SUGANUMA and Toshinori KOJIMA*
- P-18: Comparison of Root Distribution Pattern between Gramineae and Legume Species under Various Soil and Climate Condition**  
*Shinji SUZUKI, Yukimitsu KOBAYASHI, Fumio WATANABE, Daichi NAKAGAWA and Taisuke IZUMIKAWA*
- P-19: Estimation of Hydrogeological Structure Combining Groundwater-Aeration-Sound, Ground-Penetrating-Radar and Resistivity Tomography in Semi-Arid Area**  
*Takayuki KAWAI, Motoyuki SATO, Yasuyuki TADA, Ryota TSUCHIYA, Yuki MORINAGA, Masato SHINODA, Seiichirou KURODA and Hiroshi YASUDA*
- P-20: Study on Phytoextraction of the Heavy Metal Contaminated Soil by Fast-Growth Willow (*Salix* Spp.)**  
*Yuichi ISHIKAWA, Sachiko YABUKI, Shota NAGASAWA, Hideo SUGIMOTO, Yuji AOKI, and Shigeru SATOH, Atsushi HAYAKAWA, Tadashi TAKAHASHI, and Shin HIDAKA*
- P-21: The Modern State of Riparian Forest Vegetation of the Eastern Chink of Ustyurt Plateau**  
*Bekhzod ADILOV, Tashkxonim RAKHIMOVA, Khabibullo SHOMURODOV and Nodira RAKHIMOVA*
- P-22: Analysis of the Water Quality and Anthropogenic Pressure in the Zeravshan River Basin**  
*Timur KHUJANAZAROV, Kristina TODERICH, Kenji TANAKA, Yoshiya TOUGE and Vyacheslav APARIN*
- P-23: Dry Land Ecosystems and Biodiversity of Uzbekistan**  
*N.K. ATABAEVA and L. Sh. EGAMBERDIEVA*
- P-24: Embedded Systems Based Modern Irrigation and Crops Cultivation Technique in Agriculture**  
*T.K. SETHURAMALINGAM*
- P-25: Multi Disciplinary Approach to Robotics in Farm Sector**  
*M. PRABHU*
- P-26: Design and Analysis of Agriculture Robot**  
*P.V.SANKARGANESH*
- P-27: Synthesis and Electropolymerization of Tetra-[*B*-(2-Benzimidazole)] and Tetra- [*B*-(2-(1-(4-Aminophenyl))Benzimidazole)] Embedded Cobalt Phthalocyanine and Their Supercapacitance Behaviour**  
*Nemakal MANJUNATHA, Mohammed IMADADULLA, Koodlur S. LOKESH and K. R. Venugopala REDDY*
- P-28: Technology of Pasture Improvement Based on Water Regime Indexes Interrelation of Different Ecological Desert Plant Groups**  
*Tura RAKHIMOVA and R. ALLABERDIEV*
- P-29: Assessment of the Water Quality under Anthropogenic Impact in the Upstream of the Naryn River Using Radiological Analysis**  
*Tamara TUZOVA, Rispek SATYLKANOV, Vladimir SHATRAVIN, Temur KHUJANAZAROV and David WATKINS*

**P-30: Arid Area Health Risk Assessment of Utilising Rain and Wastewater in Urban Western Australia: Case Study**  
**Nandini RASTOGI and Martin ANDA**

**P-31: Production and Application of Enzymes in Food Industry**  
**Salma Hussein ELSAYED**

**P-32: Hydrogen and Acids Production from Food Waste: Effects of Pre-treatment, Ph and C/N**  
**Reham HAMED**

**P-33: The Biological Activity of Medicinal Plants from Egyptian Desert**  
**Ahmed M. BOUL-ENEIN and Hany A. ELSHEMY**

**P-34: Domestic Solar Vegetable Dryers: A Comparative Study**  
**Sebiha REHMAN and Seemin RUBAB**