

CONTENTS

Keynote/Guest speeches	Page
Keynote speech	
Tailored Nanostructures for Drug Delivery and Early Cancer Detection	XXV
Dr. Stefan H. Bossmann	
Plenary speeches	
Creating a Researcher with an Entrepreneurial Mindset to Build-up the Science-based & Technology Oriented Research System of a Nation is Socially-Responsible	xxix
Senior Professor Udith K. Jayasinghe	
How Nano science technology contributes for a better life	xxx
Professor C.A.N. Fernando	
Abstracts of oral presentations: Session A	
Analysis of insulin-like peptide 3 and testosterone concentrations with selected morphometric attributes in Thamankaduwa white male cattle	1
De Silva S.T.D., Gunawardena O.B., Pragashan P., Manoharan N., Sukumar V., Viveka K.A., Pagthinathan M., Silva G.L.L.P., Pathirana I.N.	
Development of <i>Trichoderma</i> based bulb treatment for the management of anthracnose and white rot in onion (<i>Allium cepa</i> L.)	2
Withana W.A.T.N., Pakeerathan K., Fernando W.M.K., Kumarasinghe K.M.T.M., Tillakaratne J.B.D.Y.	
Can leaf micromorphology and foliar anatomy be used to identify cinnamon species in Sri Lanka?	3
Abeysinghe P.D.	
Evaluation of characteristics of composite blend of wheat (<i>Triticum aestivum L.</i>) and <i>Angili bathala</i> (<i>Ipomoea batatas</i>) cultivar flour for cake development	4

Wijenayake J.M.U.S. and Senevirathne M.



Comparison of <i>in vitro</i> antibacterial activity of <i>Plectranthus</i> hadiensis, Cyperus rotundus and Desmodium triflorum extracts against Enterococcus faecalis	5
Kavindi K.D.S. and Munasinghe M.L.A.M.S.	
In vitro evaluation of acute toxicity of citrus essential oils towards the parasitic mite Tetranychus urticae	6
Nakshath Banu M.U., Thanusan S., Vinujan S.	
Isolation of phosphate solubilizing bacteria from soil and its application in plant growth promotion: As a green approach	7
Jayathilake K.M.P.I., Manage P.M., Idroos F.S.	
Determination of growing media for Black Soldier Fly (Hermetia illucens) production using organic waste ingredients	8
Abeysingha A.M.S.U., Mikunthan G., Pakeerathan K.	
Development of instant pasta using composite flour mixture of Unripe Banana (Musa acuminata) and Jackfruit Seeds (Artocarpus heterophyllus)	9
Jayampathi H.G.N., Kariyawasam K.M.G.M.M., Fernando G.S.N.	
Productive performance of Jersey and Jersey x Holstein Friesian crosses in the dry zone of Sri Lanka under sophisticated intensive management system	10
Thissera W.T.L. and Sinniah J.	
A Preliminary taxonomic survey of Epiphytic Cryptogams in selected southern lowland rainforests of Sri Lanka	11
Dilrukshi H.A.C., Rubasinghe S.C.K., Ruklani N.C.S.	
Abstracts of oral presentations: Session B	
Removal of dissolved copper ions in water by using tea waste and tea waste-derived biochar	12
Darsigan S., Maithreepala R.A., Asanthi H.B.	
Degradation of synthetic dye wastewater by electrolysis	13
Wickramarathna A.H.M.H.M., Hewage J.W., Wanniarachchi S.	



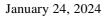
Developing a Cationic Selective Membrane with Aloe Vera for the Desalination of water	14
Thilanka K.K.T., Fernando M.S., De Silva K.M.N., De Silva W.R.M.	
Detection of Pathogenic <i>E. coli</i> O157 along with the Chemical Monitoring of Coastal Water from Sarakkuwa to Mirissa Coastal Belt in Sri Lanka	15
Bandara S.M.T.V., Wijerathna P.A.K.C., Liyanage G.Y., Manage P.M.	
Value addition to the black tea using leaves of common guava, Ceylon Cinnamon and evaluation of its functional properties	16
Dehideniya K.M.S.A.K., Bulugahapitiya V.P., Sabaragamuwa R.S., Kananke T.C.	
PCL/HAP-MMT Electrospun Scaffold with Chitosan-mediated nanosilver for Antibacterial Activity	17
Chandraguptha K.V.D.T., Fernando H.A.V., Fernando M.S., Godakanda V.U., De Silva K.M.N., De Silva W.R.M.	
Development of batik textile colorant using mahogany shale (Swietenia macrophylla), marigold flowers (Tagetes erecta), and onion peel (Allium cepa L.)	18
Chandrasri N.K.U.K., Amarasinghe A.G.C.S., Hewavitharana K.H.I.K.	
Novel bacterial consortium for the reduction of composting odor emission and enhancing compost maturation rate in the municipal solid waste	19
Wijerathna P.A.K.C., Udayagee K.P.P., Idroos F.S., Pathmalal M.M.	
Mapping of water and soil quality parameters in the Gampaha-Ihalagama grama niladhari division	20
Heenkenda H.M.D.S.D., Deraniyagala P.E.P.S., De Silva R.C.L.	
DFT and TDDFT calculations of linear and nonlinear optical properties of Ruthenium Alkynyls with extended π -bridges	21
Madushan K.V.Y.K. and Kodikara M.S.	
Assessment of DFT methods for calculating first hyperpolarizabilities and excitation energies of organic molecules	22

Jayawaruni W.H.R. and Kodikara M.S.



Analysis of major fatty acid groups, conjugated linoleic acid, and lipid quality indices in selected commercial dairy products in Sri Lanka	23
Rathnathunga W.A.A.I. and Senarath H.P.S.	
Influence of land use on aquatic pollution in an urban wetland: a case study in "Kirala kale" Matara District, Sri Lanka	24
Sumanarathne E.S.C., Jayasinghe U.A.D., Sanjaya K.	
Synthesis and characterization of chitosan-supported Ni and Cu nanoparticles	25
Vithana C.T. and Kalutharage N.K.	
Fluoride removal in water using kaolin and eggshell powder blend adsorbents	26
Senarathna S.A.A.G., Wanniarachchi D.D.C.de S., Diyabalanage S.	
Marine algae derived ZnO NPs, Ag NPs and Ag/ZnO NCs for photocatalytic activity	27
Senanayake E.R.M.K. and Thiripuranathar G.	
UV-Blocking activity of Cocosnucifera (coconut) leaf extracts	28
Dissanayake A.S. and Sathishka P.K.	
Neutralization potential of bulk deposition in two distinct environments (urban and rural), Sri Lanka	29
Wijerathna A.I.S.S., Amarathunga A.A.D., Pemarathne S.K.S., Naveendrakumar G.	
Zooplankton assemblages in Nilwala River and Madu River estuaries in Southern Sri Lanka as indicators of ecosystem health	30
Rathnayake R.M.S.W., Guruge W.A.H.P., Gunawickrama S.H.N.P., Gunawickrama K.B.S.	
Evaluation of hydrolytic and thermal stability of plywood, bonded with urea-formaldehyde resins with tire pyrolysis char, wheat flour and coconut shell powder as novel filler systems	31
Sandamali L.W.D., Hewage J.S., Malimbadage A., Panamgama L.A.	
Production of biodiesel from waste cooking oil by using mahogany husk ash and CaO as catalyst	32

Ratnaweera C.N., Pulle P.D.P.D., Karunarath A.G.S.S.





Construction of low-cost silver-silver chloride and carbon paste electrodes for potentiometry practicals and pH measurements	33
Gimhani A., Nethmini P.K.A., Ratnaweera C.N.	
Upgraded waste tyre pyrolytic char for solid tyre tread compounds	34
De Zoysa D.M.D.A., Sampath W.D.M., Hewage J.S., Ranaweera S.A.	
In-vitro evaluation of coagulant activity of Mikania micrantha leaves extract grown in Sri Lanka and formulation of a topical herbal cream	35
Harshani P.D.K., Pathiraja V.M., Karunanayake A.	
Herbal cream formulation enriched with extracts of <i>Pterocarpus marsupium</i> (Gammalu) bark	36
Nawarathna T.P.H., Dissanayake A.S., Hettihewa S.K.	
Sustainable synthesis of Ag-ZnO nanocomposites utilizing pumpkin agro-waste and evaluation of their antioxidant potential	37
Aththanayake S., Thiripuranathar G., Ekanayake S.	
Effects of acid treatments on the properties of pyrolytic carbon char in rubber carpet formulations	38
Liyanagamag V.U., Hewage J.S., Attanayake A., Ranaweera S.A.	
Green synthesis of ZnO nanoparticles and study of their photocatalytic degradation of Rhodamine B	39
Samarasingha K.C.M. and Edussuriya M.	
Wood apple agro-waste based zinc oxide nanoparticles and their photocatalytic activity	40
Gamage V., Thiripuranathar G., Nishshanka U., Priyantha N., Goonatilleke M.D., Guiton B.S., Gunewardene S., Jayanetti S.	
Synthesis of nanocrystalline cellulose from plant and their chromatographic applications.	41
Gunawardana J.G.S.P.P., Waduge M.H., Thiripuranathar G.	
Synthesis of nanocrystalline cellulose from Musa Paradisiaca bunch stalk and peel and its' application in environmental remediation.	42

Waduge M.H., Gunawardana J.G.S.P.P., Thiripuranathar G.



Evaluation of antimicrobial activity of essential oil of <i>Pogostemon heyneanus Benth</i> (F. Lamiaceae) leaves and formulation of an emulgel dosage form	43
Nisansala W.G.M., Herath H.M.D.R., Nadeshkumar A., Arawwawala L.D.A.M., Jayasuriya W.J.A.B.N.	
Computational study on the activity of serum paraoxonase-1 (PON1) in lipid membrane with Glutamine/Arginine polymorphism at position 192	44
Thanthrige V.O., Wijekumara A.B.A.T., Ratnaweera C.N.	
Abstracts of oral presentations: Session C	
The impact of structured exercise programs on the gross motor skills development of children with Attention Deficit Hyperactivity Disorder (ADHD)	45
Somarathna R.D.A.M. and Perera R.A.K.I.	
A survey on dietary and lifestyle practices among hypertensive patients: A cross-sectional study	46
Madhushan W.M.L. and Kalawana O.T.M.R.K.S.B.	
Soil nematodes assemblage associated with ridge-gourd fields maintained with conventional and good agricultural practices (GAP)	47
Dribargs T.I.S.C. and Premachandra W.T.S.D.	
Formulation of a potential topical antiperspirant using natural ingredients	48
Jayathilaka W.W.D.M.S., Pathiraja V.M., Karunanayake A.	
Development of herbal feminine wash with <i>Bauhinia racemosa</i> (Lam.) bark-extract and <i>in-vitro</i> evaluation of antibacterial and antifungal activities	49
Janarammi G. E., Hettihewa S.K., Dissanayake A.S.	
Immunomodulatory roles of <i>Edwardsiella piscicida</i> and <i>Streptococcus parauberis</i> derived extracellular vesicles in Zebrafish	50

Jayathilaka E.H.T.T., Dias M.K.H.M., Nikapitiya C., De Zoysa M.



Determination of biocompatibility of Carmona <i>retusa</i> (vahl.) Masam using brine shrimp and zebrafish assays (FET 293)	51
Nadunika T.A.S., Munasinghe M.W.S.S.M.V.C.B., Vijaykumar P.J., Herath H.M.L.P.B.	
Identification of dominant sesarmid crab species of a mangrove ecosystem in Southern Sri Lanka using DNA barcoding	52
Dedunupitiya H.M.M.D., Gamage L.M.P., Bandara K.V.S.N., Munasinghe D.H.N.	
Variations of colour, total carotenoid and astaxanthin levels in fillets of Asian seabass (<i>Lates calcarifer</i>) with the post-harvest time	53
Premawansha K.K.K., De Silva M.P.K.S.K., Senaarachchi W.A.R.K., Liyanage N.P.P.	
Significance of Wellamadama premises of the University of Ruhuna, Southern Sri Lanka for the conservation of avifauna in Matara District	54
Shantha W.M.D.T.L.S., Pushpika W.D.D., Chathuranga W.G.D.	
SELEX for identifying albumin binding DNA aptamers in a local setting – a preliminary study	55
Abeykoon A. I., Kumarasinghe K.M.N., Chandrasekharan N.V., Muhandiramlage T.P.	
Investigating the impact of socio-demographic factors on reservoir conservation interest	56
Silva M.B.V.A., Witharana A., Randeni L., Perera T.	
Acute toxicity of cylindrospermopsin on zebrafish (<i>Danio rerio</i>) embryonic development	57
Imanthi K.P.A., Pathmalal M.M., Wanigasuriya J.K.P., Perera P.P.R., Jayasundara N.	
Abstracts of oral presentations: Session D	
An optimization model for integrated vehicle routing problem and vehicle sequencing problem with Cross-docking system	58

Gnanapragasam S.R. and Daundasekera W.B.



A hybrid CNN-SVM model for Tamil handwritten character recognition	59
Nemitha R., Ramanan M., Yasotha R.	
A multivariate measurement error model for method comparison data under skewed and heavy-tailed distributions	60
Duwarahan J. and Nawarathna L.S.	
CFD simulation for miscible and immiscible viscous fingering formation for distinct injective fluids	61
Sahabandu C.W. and Dewasurendra M.	
Exploring monthly births in Sri Lanka	62
Perera W.T.C., Kulasekara S.M.D.K.A., Jayasinghe A.D.K.C.D., Prasangika K.D.	
Parameter estimation in survival distribution by using Expectation Maximization (EM) algorithm	63
Lakmini R.M.V. and De Mel W.A.R.	
Multi-Objective programming approach to find the best set of software components in component-based software engineering	64
Thilakarathna N.C.J. and Rodrigo W.N.P.	
An improved mathematical model for making certain procurement-related decisions in Sri Lankan industry	65
Manathunga M.M.D., Dharmasena W.D.K.S., Yapage N.	
Modeling and forecasting dengue incidence in Matara district using Kernel smoothing with Boxcar Kernel function	66
Priyantha M.V.T.I. and Prasangika K.D.	
A mathematical model for diabetes presence with two control strategies - An optimal control approach	67
Madhushika T.D.T., Somathilake L.W., Fernando M.C.S.	
Meta-analysis on the effects of Romosozumab on Bone Mineral Density in Osteoporosis; comparison of Fixed effects and Random effects models	68

Dilshani S.D.M., Jayasekara L.A.L.W., Liyanage G., Lekamwasam S.



A fuzzy multi objective programming techniques applied to a case study on an apparel Industry	69
Malshani H.H. and Rodrigo W.N.P.	
Exploring the future direction of cancer incidents in Sri Lanka	70
Tennakoon T.H.M.U.S.B., Dharmasena W.D.K.S., Prasangika K.D.	
Analysis of road accident patterns in Sri Lanka using K-means clustering	71
Kumari W.M.S.K., Britto K.K.S.N., Kannangara K.K.S.V., Jayethileke H.L., Hansani K.G.P.	
Forecasting paddy production in Matara district of Sri Lanka using time series analysis.	72
Abeysekare E.M.N., Batuwitage N.V., Jayasankha R.G., Prasangika K.D.	
Development of an automatic external ventilation system for automobile	73
Fernando M.M.M., Deemantha M.B.A., Maparathna M.R.H.D., Sirinanda R.B.T.D., Jayalath J.R.K.A.	
Sound transmission characteristics of loosely packed wood dust And wood chips for noise attenuation: A preliminary study	74
Chandrasiri T.L.A.N., Siriwardhana J.M.C.N., Jayasooriyariya A.P.C.C., Bodhika J.A.P.	
Enhancing digital intelligence: A comprehensive approach to detailed recognition of Hand-Drawn circuit diagrams	75
Herath H.M.L.D. and Kumarika B.M.T.	
Sentiment analysis on ChatGPT based on Twitter data: A comparison between different algorithms	76
Kumarawadu T.E. and Rupasingha R.A.H.M.	
Ensemble approach for predicting bug priority level using Deep Learning Algorithms	77
Dharmakeerthi P.G.S.M., Rupasingha R.A.H.M., Kumara B.T.G.S.	
Elementary model for bird species identification using Convolutional Neural Network: Case study in Sri Lanka	78
Vidanagamachchi C., Chathuranga L.L.G., Jayathilaka K.A.T.S.,	

Raigamkorale B., Vidanagamachchi S.



Abstracts of poster presentations: Session A	
Effect of artificial light supplementation and split application of Albert's fertilizer solution on growth and yield of Bell Pepper in protected conditions	79
Karunarathne W.M.A.M., Subasinghe S., Kumarasinghe H.K.M.S., Adikaram K.K.L.B., Piyaratne M.K.D.K.	
In vitro evaluation of Dicloran 75% WP as a new fungicide against Onion Bulb Rot caused by Sclerotium rolfsii	80
Fernando W.M.K., Kumarasingha K.M.T.M., Thilakarathna J.B.D.Y.	
Management of root-knot, <i>Meloidogyne incognita</i> in tomatoes using medicinal plant-based compost	81
Thanuja S., Nirosha T., Pakeerathan K., Mikunthan G.	
Comparative assessment of different drying techniques on physicochemical, proximate, antioxidant and sensory properties of Bilimbi Fruit (<i>Averrhoa Bilimbi</i> L.)	82
Sandarenu E.G.S., Fernando G.S.N., Kariyawasam K.M.G.M.M., Awanthi M.G.G.	
Evaluation of nutritional, physicochemical and cooking quality of defatted Soy Flour (<i>Glycine max</i> L. Merr.) enriched pasta	83
Farhana S.L.F., Kariyawasam K.M.G.M.M., Rimaz R.M.M.	
Formulation and quality assessment of "Peanut-Based" spread incorporated with Flax, Chia, and Sesame seeds	84
Wardha A.S., Kariyawasam K.M.G.M.M., Rimaz A.M.M.	
A preliminary study of some of the physicochemical, nutritional, and functional properties of rice bran in white and brown rice (Bg 300 and At 362) in Sri Lanka	85
Jans H.M., Perumpuli P.A.B.N, Abeysuriya A.P.H.I.	
Evaluating yoghurt quality attributes with banana (Musa acuminata) peel integration	86
Senaratne S.M.D.S.C., Somaratne G., Roy D.	

Evaluating the effect of king coconut husk ash, biochar, together with inorganic fertilizer application to improve soil fertility in coconut lands.	87
Shamila S.K., Udumann S.S., Kowshalya R., Atapattu A.J.	
The potential antimicrobial activity of two common Zingiber officinale cultivars grown in Sri Lanka.	88
Dharmapala D.K.P. and Amarakoon R.	
A study on the performance of few underutilized vegetable crops in dry zone with different trellises	89
Nidarshini S.P. and Sivachandiran S.	
Formulation of fiber-rich drink powder mix from Ridge Gourd (<i>Luffa acutangula</i>) and evaluation of its quality parameters	90
Avanjan H.G.S.D., Binduhewa A.M.C.U., Kariyawasam K.M.G.M.M.	
Development and characterization of kithul flour (caryota urens) based alternative tissue culture media for agar	91
Sandamini W.W.S.S., Hewavitharana K.H.I.K., Jayawardana L.S.	
Development of composite flour incorporated with banana pseudo-stem flour and application in waffle cones	92
Kulathunga B.P.S.D., Amarasinghe H.K., Senarath H.P.S.	
A comparison of the phytochemicals and <i>In Vitro</i> antioxidant activity of different parts of <i>Syzygium cumini</i> in Jaffna district, Sri Lanka for the preparation of nutraceuticals	93
Vethanayakan K., Rajkumar G., Sanmugarajah V.	
Effect of actigen prebiotic on growth performance of broiler chicken	94
Raheema M.S.S.M.S., Varthani S., Jeyaharan T., Piratheepan S.	
Effect of different time periods of pinching on growth and flowering of an ornamental plant, <i>Platycodon grandifloras</i> Jacq. var. 2009B	95
Aththanayaka A.S.M., Balasooriya A.S., Rajapaksha D.S.W., Upendri H.F.L.	
Development of beverage powder from vacuum dehydrated Lavulu (<i>Pouteria campechiana</i> (Kunth) Baehni) and Lime (<i>Citrus aurantiifolia</i> (Christm.) Swingle) fruits	96

 $Sirisooriya.\ A.C.H.\ and\ Rajapaksha\ D.S.W.$



Antibacterial activity of acetone fractions of the root of <i>Vateria</i> copallifera against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>	97
Nirubini A.S., Ajeetha J., Sivasinthujah S., Gnanakarunyan T.J., Srikaran R.	
Evaluation of antibacterial potential of <i>Pandanus kaida</i> inflorescence crude extracts and formulation of a transparent antibacterial soap	98
Karunathilaka S. and Darshana D.	
Enhancement of antibacterial efficacy of Norfloxacin through biotransformation by <i>Saccharomyces cerevisiae</i>	99
Karunathilaka S. and Darshana D.	
Abstracts of poster presentations: Session B	
Plant mediated synthesis of ZnO/CuO nanocomposite using juice extracts of <i>Citrus limon</i> and the evaluation of its antioxidant activity	100
Perera W.H.P.A.D. and Weerasiri K.C.	
Eco-friendly photocatalyst derived from egg-shell waste for methylene blue dye degradation	101
Hewavitharana S.D. and Wanniarachchi D.	
Traits of Ferruginous gravel and Laterite deposit and Stratigraphic Correlation with Red Earth in Northern Sri Lanka	102
Madushanka.H.G.D. and Balasooriya N.W.B.	
Investigation of antioxidant activity in leaf extract of Argyreia pomacea (Manpanchan)	103
Yogarasa L., Srikokulan S., Senthilnanthanan M.	
Study of synergistic bioactivities of <i>Coffea arabica</i> leaf extract with copper oxide nanoparticles	104
Weligamage N.S. and Weerasiri K.C.	
Nanoscale zero-valent iron biochar composites for heavy metal removal: Thermodynamics, material regeneration, and application to simulated wastewater	105
Malaweera Arachchi U., Hettige A.L., Alahakoon Y.A., Peiris C.,	

Mlsna T.E., Gunatilake S.R.



Rice husk derived silica gel as a desiccant and TLC stationary phase	106
Thilakarathna W.D.N., Samaraweera A.P.K., Bandara N.G.H.J., Ratnaweera C.N.	
TLC-based metabolite profiling for <i>Amurthashtaka kwatha</i> : An Ayurvedic polyherbal formulation used for fever associated Inflammation	107
Vinodani L.P.S., Gurupadayya B.M., Rajeshwari S. Erica Alves, Suresh J., Herath H.M.D.R., Hapuarachchi S.D., Dantanarayana P., Suresh T.S., Jayasuriya W.J.A.B.N.	
Synthesis and characterization of desferrioxamine entrapped PEO/ethyl cellulose nano-hybrids	108
Wimalasiri A.K.D.V.K., Espósito B.P., Mohotti M., Kalansuriya P.	
Comparative phytochemical screening and thin layer chromatography development for Soxhlet and ultrasound-assisted extracts of <i>Piper longum (Thippili)</i> and <i>Piper sarmentosum (Gas thippili)</i> grown in Sri Lanka	109
Uyangoda I.S.S.C., Munasinghe M.L.A.M.S., Nawarathne T.K.	
Abstracts of poster presentations: Session C	
Abstracts of poster presentations: Session C Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka.	110
Rerecord of Asymmetricata impressa (Lampyridae) after 112	110
Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka. Gamage L.M.P., Rathnayake R.R.M.U.N.B., Wijekoon W.M.C.D.,	110 111
Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka. Gamage L.M.P., Rathnayake R.R.M.U.N.B., Wijekoon W.M.C.D., Wegiriya H.C.E. Physical and microbial stability of three extemporaneously compounded medicines in selected pharmacies in Uva and	
Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka. Gamage L.M.P., Rathnayake R.R.M.U.N.B., Wijekoon W.M.C.D., Wegiriya H.C.E. Physical and microbial stability of three extemporaneously compounded medicines in selected pharmacies in Uva and Southern Provinces Oshadhi R.M.U., Karunanayaka K.D.S.V., Subasinghe H.W.A.S.,	
Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka. Gamage L.M.P., Rathnayake R.R.M.U.N.B., Wijekoon W.M.C.D., Wegiriya H.C.E. Physical and microbial stability of three extemporaneously compounded medicines in selected pharmacies in Uva and Southern Provinces Oshadhi R.M.U., Karunanayaka K.D.S.V., Subasinghe H.W.A.S., De Silva K.I.M. Evaluation of quality and stability of spironolactone tablets	111
Rerecord of Asymmetricata impressa (Lampyridae) after 112 years from Central Province, Sri Lanka. Gamage L.M.P., Rathnayake R.R.M.U.N.B., Wijekoon W.M.C.D., Wegiriya H.C.E. Physical and microbial stability of three extemporaneously compounded medicines in selected pharmacies in Uva and Southern Provinces Oshadhi R.M.U., Karunanayaka K.D.S.V., Subasinghe H.W.A.S., De Silva K.I.M. Evaluation of quality and stability of spironolactone tablets stored in different household conditions	111

Abstracts of poster presentations: Session D	
Addressing the early dropout of Quantity Surveying Courses among university students in Sri Lanka	114
Paranagama S.M., Srivishagan V., Thalpage R.	
Modelling breast cancer incidences in Sri Lanka using Time Series analysis	115
Kulasekara S.M.D.K.A. and Prasangika K.D.	
Application of Dijkstra's algorithm to find the shortest paths between selected travel destinations in Colombo	116
Lanel G.H.J. and Priyanvada K.H.H.	
Investigating the influence functions of Cumulative Hazard and Kaplan-Meier Estimators for survival data	117
Thilakarathne K.P.A.I. and De Mel W.A.R.	
A goal programming model for land allocation for crops in Udawalawa irrigation scheme in Sri Lanka	118
Jayasinghe A.D.K.C.D. and Samarathunga D.M.	
Kauffman bracket polynomial of the (3, q) torus knot	119
Dissanayake A.A.A.W.N. and Almeida S.V.A.	
A discrete dynamical model for natural resistance against HIV	120
Ekanayaka K.R.T.A. and Shanthidevi K.C.N.	
Modeling temperature variation in Trincomalee district, Sri Lanka: Time Series approach	121
Britto K.K.S.N., Kumari W.M.S.K., Ekanayaka K.R.T.A., Prasangika K.D.	
Numerical study of age-structured two-sex population dynamics model for transmission of Thalassemia disease	122
Chandrasiri A.M.P. and De Silva T.H.K.R.	
Impact of environmental, social, and governance (ESG) reporting in the corporate performance of the companies listed in the Colombo Stock Exchange in the year 2020	123
Liyanage S.I.M., Jayatilake R.V., Hewavithana N., Pallewatta N.S.	
Numerical analysis on size dependency of spherical silver nanoparticles in response to an electric field	124

Lakshan K.A.S.



Use of end area rule for the volume estimation in two dimensionally varying sections	125
Wanasinghe G.I. and Gunathilaka K.M.R.S.	
Investigation of electrical properties of composite dipped films developed with electrically Conductive Carbon nanotube (CNT)-Natural Rubber Latex (NRL)	126
Jayasinghe D.M., Weerathunga D.T.D., Kumarasinghe A.R., Manathunga K.S., Dharmasiri R.A.D.D., Manathunga C.H., Sewwandi B.V.N.	
Investigation of the mechanical properties of grit blasting waste incorporated concrete	127
Kandanage K.D.A.M., Chathurika H.A., Adikari A.M.P.I, Suraweera B.D.P.D., Pabasara W.G.A.	
HTTP-based Real-Time HD to SD adaptive video streamer for mobile devices	128
Ajward A.M.	
Project management Failure and Impact on the Investor's Budget in Sri Lankan Construction Industry	129
Yogadharshani V., Srivishagan V., Thalpage R.	
Comparative analysis of condition of contracts in Sri Lankan construction industry, study of ICTAD AND FIDIC	130
Faseela F.F., Srivishagan V., Thalpage R.	
Analyzing the factors effect on wear of brushes and optimizing the brush life of AC universal motors.	131
Hulangamuwa R.W.M.P.W.P. and Sasikala R.H.G.	
Improving the accuracy using ensemble based predictive model for predicting healthy lifestyle based on lifestyle, habits, and behaviors	132
Perera T.D.M. and Rupasingha R.A.H.M.	
Uncovering the multifaceted nature of fake news: A Latent Dirichlet Allocation Topic modelling approach	133
Abishethvarman V., Banujan K., Nirubikaa R., Kumara B.T.G.S.	
Deep learning approach for breast cancer prediction with Biglycan as a potential biomarker	134
Paranawithana G.P.	
List of Reviewers	135
Sponsors	149