

**COVID-19: Impact, Mitigation, Opportunities and Building Resilience**  
**National Conference Organized by the National Science Foundation, Sri Lanka**

**BMICH-Lotus Hall**  
**Colombo, Sri Lanka**  
**27<sup>th</sup> - 28<sup>th</sup> January 2021**

**Day 1**

Inauguration	27/01/2021	08.30 am - 10.30 am
Plenary Session 1	27/01/2021	10.30 am - 12.00 pm
Poster Presentation	27/01/2021	12.00 pm - 12.30 pm
Plenary Session 2	27/01/2021	01.00 pm - 02.00 pm
Technical Session I	27/01/2021	02.00 pm - 04.20 pm
Technical Session II	27/01/2021	04.20 pm - 05.50 pm

**Day2**

Opening Session	28/01/2021	08.30 am - 09.40 am
Plenary Session -3	28/01/2021	09.45 am - 10.15 am
Plenary Session -4	28/01/2021	10.20 am - 11.00 pm
Technical Session -III	28/01/2021	11.10 am - 12.40 pm
Plenary Session 5	28/01/2021	01.00 pm - 01.40 pm
Panel Discussion	28/01/2021	01.45 pm - 03.20 pm
Policy Dialogue	28/01/2021	03.30 pm - 04.45 pm

## Inauguration

National Conference on “COVID-19: Impact, Mitigation, Opportunities and Building Resilience”  
under the theme

“From Adversity to Serendipity”

at

Lotus Hall, BMICH, Colombo

27<sup>th</sup> January 2021

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| 08.30 - 09.00 a.m. | - | Registration  |
| 09.00 - 09.10 a.m. | - | Lighting of the Oil Lamp and National Anthem  |
| 09.10 - 09.20 a.m. | - | Welcome and Introductory Remarks<br><b>Prof. Ranjith Senaratne</b><br>Chairman, National Science Foundation<br>Sri Lanka  |
| 09.20 - 09.30 a.m. | - | Address by Guest of Honour<br><b>Dr Seetha Arambepola</b><br>Hon. State Minister<br>State Ministry of Skills Development, Vocational Education,<br>Research and Innovation  |
| 09.30 - 09.55 a.m. | - | Keynote Address on SARS-CoV-2: The virus, its transmission<br>pathogenesis and prevention<br><b>Prof. Malik Peiris</b><br>Professor and Chair in Virology<br>The School of Public Health<br>The University of Hong Kong |
| 09.55 - 10.15 a.m. | - | Address by the Chief Guest<br><b>Prof. G. L. Peiris</b><br>Hon. Minister<br>Ministry of Education   |
| 10.15 - 10.20 a.m. | - | Vote of Thanks<br>Acting Director General<br>National Science Foundation, Sri Lanka   |
| 10.20 - 10.30 a.m. | - | <b>Tea</b>  |

**Plenary Session -1**  
**Chair: Senior Prof. Narada Warnasuriya**

10.30-10.50 am	<b>From resilience to resilience: Journey of the Sri Lankan Health Sector through and beyond the COVID-19 pandemic</b> , Dr. Hemantha Herath, Deputy Director General (Public Health Services I), Ministry of Health, Sri Lanka
11.00-11.20 am	<b>Pandemic, molecular epidemiology and research</b> , Prof. Neelika Malavige, Professor in Microbiology and Director, Centre for Dengue Research, University of Sri Jayewardenepura, Sri Lanka
11.20-11.40 am	<b>Testing - national laboratories and their role</b> , Dr. Jude Jayamaha, Consultant Virologist, Department of Virology, Medical Research Institute
11.40-12.00 pm	<b>Challenges in patient management</b> , Dr. Ananda Wijewickrema, Consultant Physician, National Institute of Infectious Diseases, Sri Lanka

<b>12.00-01.00 pm</b>	<b>Poster Presentations</b> <b>Co-Chairs: Dr Sirimal Premakumara and Prof. Chandani Liyanage</b>
HLP-01	Healthcare Needs and Strategies Used by the General Public During the Lockdown Period due to COVID 19, Kommalage M*, Kommalage S
HLP-02	Knowledge, Attitudes and Practices on COVID-19 among Medical Students in Sri Lanka. Padmasiri M.S.N, Dharani U.G.A.N*, Matthias A.T,
HLP-03	SARS-COVID-2 Specific IGM and IG Response among Quarantined Healthcare Workers following Exposure to COVID-19 Confirmed Co-Workers in a University Hospital, Sri Lanka. Govindapala D.S*, Nakkawita W.M.I.D, Senaratne U.T.N, Jayasena D.H, Jayasekara M.M.P.T, Navaratne P.B.V, Abeyagoonawardhena H, Gamage P and De Silva A.
HLP-04	Establishment of Healthcare Facility at Iranawila, for COVID-19 Patients in Sri Lanka. Dharmaratne G.S.K*, Mallawarachchi S.M.N.S.M, Ponweera D, Fernando R.M.S.D.
HLP-05	Use of Artificial Intelligence in Prevention and Mitigation of COVID-19: A Review. Rathnayake S.B.A.S.M*, Dharmaratne S.D, Ekanayake M.P.B, Godaliyadda G.M.R.I, Herath H.M.V.R, Ekanayake J.B.
MWP-01	Learning and Mental Well-being Challenges Faced by the Physical Science Undergraduates of the Faculty of Science, University of Kelaniya during the Covid-19 Pandemic. Chandrasekara N.V*, Weerasinghe W.P.M.C.N and Basnayake B.R.P.M.
MWP-02	Mitigating the 'Shadow Pandemic' of COVID-19: A Project by Undergraduates of a University in Sri Lanka , De Zoysa P*, Wijesena V, Iqbal I, Gunasekara M, Rombage Y, Niyaz A, Upeka S, Fernando A, Fonseka R, Ranasinghe N.
MWP-03	Lived Experiences of Sri Lankans Hospitalised with COVID-19: A Mixed Method Study. Jabir S*, Jayaweera K, Dissanayake L, Ediriweera I, Weerasinghe N, Jayasinghe K, Abhayasinghe K, Lokugamhewa B, Wijewickrama A, Hewamalage A, Fernando B, Kumarendran B, Liyanage C, Wickramasinghe E., Abeysinghe N., Wijeymuni R., Agampodi S., Makuloluwa T. and Sumathipala A.
MWP-04	Impact of COVID-19 Global Pandemic on the Psychological and Behavioural Patterns of a Group of Youth and Young Adults Repatriated Back to Sri Lanka from the UK: A Qualitative Study Abhayasinghe K, Weerasinghe N*, Dissanayake L, Karunaratne T, Jayasinghe K, Hewamulla M, Guruge N and Sumathipala A
ECP-01	Socio-Economic Impact of COVID-19 on Ornamental Fish Farmers in Sri Lanka. Sharma U.N.S*, Hirimuthugoda N.Y, Perera P.W.A and Rajapaksha W.
BRSP-01	Mobile Survey on Utilization of Services for Medicine Distribution for the Patients with Non-Communicable Diseases during the COVID 19 Outbreak in Sri Lanka 2020. Wickramasinghe S.C, Kumarapeli V, Senaratne A, Abeygunathilaka D.N, Song S and Perera U*
RSP-01	Rapid Sequencing of SARS-CoV2 Virus Strains in Sri Lanka. Jeewandra C, Jayathilaka D.C., Ariyaratne M.H.J.D*, Gomes L, Ranasinghe D.S, Wijewickrama A, Karunaratne M, Ogg G.S, Malavige G.N.

**Plenary Session- 2**  
**Chair: Dr Asela Gunewardena**

1.00-1.20 pm	<b>Role of epidemiology: surveillance, rapid response, case investigation and quarantine</b> by Dr. Samitha Ginige, Consultant Epidemiologist, Epidemiology Unit, Ministry of Health, Sri Lanka
1.20-1.40 pm	<b>Global initiative for COVID-19 vaccines</b> by Dr. Olivia Nieveras, Public Health Administrator, WHO Country Office, Sri Lanka
1.40-2.00 pm	<b>The Impact of the COVID-19 Pandemic in Europe</b> by Professor Shanthi Mendis, Former Senior Adviser, World Health Organization, Geneva Switzerland
2.00-2.20 pm	<b>The broader impact of COVID 19: Does Sub-Saharan Africa need special attention?</b> by Professor Mahesh Nirmalan, Vice Dean, Faculty of Biology, Medicine & Health University of Manchester and Consultant in Critical Care Medicine, Manchester Royal Infirmary, Manchester, UK

### Technical Session – I

	<b>Theme 01</b>  <b>Health</b> <b>Co-Chairs:</b> <b>Dr Palitha Abeykoon</b> <b>Prof. Saroj Jayasinghe</b>	<b>Theme 02</b>  <b>Resilience</b> <b>Co-Chairs:</b> <b>Prof. Dilanthi Amaratunga</b> <b>Dr Nishara Fernando</b>	<b>Theme 03</b>  <b>Economy</b> <b>Chair:</b> <b>Dr Nishan De Mel</b>
2.00 -2.10 pm	<b>Abstract ID: HLO-01</b>  Estimation of the Basic Reproduction Number (R0) for the Novel Coronavirus Disease in Sri Lanka Using the Navy Cluster  Abeyagunawardena I.A*, Sudaraka M.D. and Dharmarathne S.D	<b>Abstract ID: RLO-01</b>  Reopening of Schools under COVID-19 Pandemic Situation  Gunasekera P.W.N.P*	<b>Abstract ID: ECO-01</b>  Monetary-Fiscal-Macprudential Policy in Sri Lanka during COVID-19  Peiris M.U*
2.10 - 2.20 pm	<b>Abstract ID: HLO-02</b>  Data Driven Decision Making (DDDM) for Covid-19 in Sri Lanka  Peiris T.S.G*	<b>Abstract ID: RLO-02</b>  An Investigation of Existing Early Warning Systems, and the Feasibility of its Infrastructure on Preparedness Planning for Epidemics and Pandemics  Siriwardana C.S.A, Jayasekera R*, Amaratunga and, Haigh R	<b>Abstract ID: ECO-02</b>  Rethinking Sri Lanka’s Industrialisation Strategy: Achievements, Lost Opportunities and Prospects  Athukorala P*and Warusavitarana A
2.20 - 2.30 pm	<b>Abstract ID: HLO-03</b>  Mitigating COVID-19 Transmission in Sri Lanka: A Mathematical Outlook for Decision Support  Ganegoda N.C*, Perera S.S.N, Götz T, Wijaya K.P, Jayathunga Y , Peiris H.O.W, Meththananda R.G.U.I, Erandi K.K.W.H, Gamachchige R.N and Thrimavithana R.T	<b>Abstract ID: RLO-03</b>  Application of Social Network Analysis to Evaluate the Stakeholders in Effective Preparedness Planning for Epidemics and Pandemics  Siriwardana C.S.A*, Jayasekera R, Amaratunga D, Haigh R, Herath H, Ranweera P and, Ariyasinghe U	<b>Abstract ID: ECO-03</b>  Impact of Covid-19 on Sri Lanka’s Exports: A Quantitative Assessment  Dunusinghe P*

2.30 -2.40 pm	<b>Abstract ID: HLO-04</b>  Guiding the Front-liners to Face the Pandemic: Story of Preparing Guidelines for Sri Lankan Primary Care for COVID-19  Mendis K, de Silva A.H.W*, Anthony A, Randenikumara S, Withana S, Arulanandem K, Atapattu C, Halambarachchige P, Kotugodella D <sup>5</sup> , Muthugala R, Perera A, Ratnam G, Senaratne L, Seneviratne S, Silva S, Weerasinghe T and Wickramasinghe R	<b>Abstract ID: RLO-04</b>  COVID-19- Best Practices of Responding, Re-Opening, and Recovery: Lessons from the UK  Hemachandra K*, Amaratunga D, Haigh R	<b>Abstract ID: ECO-04</b>  Post-COVID-19: Can the Sri Lankan Apparel Sector Benefit from US-China Decoupling? <i>A Statistical Analysis</i>  Abeyasinghe S, Arangala M.L*
2.40– 2.50 pm	<b>Abstract ID: HLO-05</b>  Chest Radiograph Features of 133 Patients with COVID-19: Findings of a Multicentre Study  Liyanage U.A*, Abewardana K, Gunasekara P.A.D, De Mel V.P.R.S, Ranatunga R.M.A.S, Lakmal K, Palihawadana S.H, De Silva and Weliange A.A.S.H <sup>1</sup>	<b>Abstract ID: RLO-05</b>  Towards Broadening the Scope of Disaster Risk Reduction: An Exploration of How Epidemic and Pandemic Preparedness is Currently Embedded within Existing Disaster Risk Reduction Planning in Sri Lanka  Fernando P.R.N*, Jayasinghe N, Amaratunga D, Haigh R, Siriwardana C.S.A and Jayaweera S	<b>Abstract ID: ECO-05</b>  Effects of Food Import Restrictions on Household Expenditures and Nutrition: Case of COVID-19 Induced Food Import Taxes in Sri Lanka  Nayanathara N <sup>*1</sup> , Weerahewa J <sup>2</sup> , Roy D <sup>3</sup>
2.50-3.00 pm	<b>Discussion</b>	<b>Discussion</b>	<b>Discussion</b>
3.00-3.10 pm	<b>T E A</b>		

	<b>Theme 01 Health Contd.....</b>	<b>Theme 02 Resilience Contd.....</b>	<b>Theme 03 Economy Contd.....</b>
3.10 -3.20 pm	<b>Abstract ID: HLO-06</b>  Effects of Vitamin D in Boosting Immunity and Prevention of COVID-19 and Its Complications  Wimalawansa S.J* and Polonowita A	<b>Abstract ID: RLO-06</b>  Settling the Ripples: An Examination of Sri Lanka's Approach to Addressing Cascading Impacts of the COVID-19 Pandemic  Fernando P.R.N*, Jayasinghe N, Amaratunga D, Haigh R, Siriwardana C.S.A, Herath H, Ranweera P, Ariyasinghe U and Jayaweera S	<b>Abstract ID: ECO-06</b>  Effects of COVID-19 Induced Agri-food Trade Policies on Processed Food Exports from South Asia: A GTAP Analysis  Sahibzada S <sup>*1</sup> , Weerahewa J <sup>2</sup>
3.20-3.30 pm	<b>Abstract ID: HLO-07</b>  Mitigation of Post COVID-19 Disorders and Secondary Infections through Stimulation of Human Immunity and Direct Targeting of Organ Persisting Pathogens by Immunomodulatory Nano-Carriers Enriched Food Formulations  Jayasinghe J.A.S.M, Amunugoda P.N.R.J*, Arawwawala L.D.A.M, Abeyrathne P.A.B.P, Sarangapani C and, Karunaratne V	<b>Abstract ID: RLO-07</b>  Disaster Risk Governance and Systemic Risks: Policy Challenges Associated with the COVID-19 Pandemic Governance  Amaratunga D*, Haigh R, Kamalathne T, Fernando P.R.N, Jayasinghe N and Siriwardana C.S.A	<b>Abstract ID: ECO-07</b>  COVID-19: Impact, Mitigation and Coping Strategies of Commercial Scale Vegetable Farmers in Sri Lanka  Dayarathne H.M.P.M <sup>*1</sup> , Sandika A.L <sup>2</sup>
3.30-3.40 pm	<b>Abstract ID: HLO-08</b>  The Use of a Cloud-Based Electronic Health Record during COVID-19 Pandemic  Mendis K, De Silva A.H.W, Liyanage U.P, Weerasooriya C.T, Withana S.S*, Ramanayaka R.P.J.C, Weerasinghe T.C, Ranaweerarachchi S, Rupasinghe K and Solangaarachchige M	<b>Abstract ID: RLO-08</b>  Topic; An investigation of using social media applications and platforms to disseminate hazard information, with a special reference to COVID-19 related information dissemination  Authors; Siriwardana, C.S.A.*, Kannangara, C., Jayathilake G.	<b>Discussion</b>



	<b>Theme 01 Health Contd.....</b>	<b>Theme 02 Resilience Contd.....</b>	<b>Cross-cutting theme 01: Governance Chair: Prof. Ajantha S. Dharmasiri Co-Chair: Dr Lloyd Fernando</b>
3.40- 3.50 pm	<b>Abstract ID: HLO-09</b>  The Economics of COVID-19 in Sri Lanka: Direct and Indirect Costs  Gamage A*, Kenneth A, Samarawickrama M, and De Silva A	<b>Abstract ID: RLO-09</b>  Impact of COVID-Related Plastic Waste – Case of Sri Lanka  Jayasinghe R.R, Lythgoe D*, Liyanage C, Williams K and Halwatura R	<b>Abstract ID: GVO-01</b>  Emerging Archetypes in Pandemic Disaster Responses: The Use of Context-Specific Incident Command System in Responding to COVID-19 in Sri Lanka  Jayasinghe K <sup>1</sup> , Prasanna R <sup>2</sup> , Wijesinghe C <sup>*3</sup> , Wijethilake C <sup>1</sup>
3.50-4.00 pm	<b>Abstract ID: HLO-10</b>  An Audit on Implementation of the Hospital Preparedness Programme to Prevent COVID-19 in Nuwaraeliya District Sri Lanka in 2020  Amarasena W.D.J.K*, Senevirathna S.S.H.M.S.W.W.G.M, Wijewickrama R.G.P.N.K, Premasiri D.G.K.M.M, Liyanage A.L.L.S.K, Perera I.N.G, Thalagala D.S and, Dharmaratne S.D	<b>Abstract ID: RLO-10</b>  Insights through a Transboundary Crisis Management Lens: Role of the Disaster Preparedness and Response Division during Covid-19 Response  Wijesekara N.W.A.N.Y*	<b>Abstract ID: GVO-02</b>  Tax Administration and Governance in Transfer Pricing in Post-COVID-19 Transition  Uwais A.C <sup>*1</sup> , Rathnayake S <sup>2</sup>
4.00-4.10 pm	<b>Discussion</b>	<b>Abstract ID: RLO-11</b>  Health Resilient Cities in a Post-COVID World: Condominium Development in Sri Lanka  Dias N*, Abeynayake C, Amaratunga D, Haigh R, Jayakody C and Jayasinghe A	<b>Abstract ID: GVO-03</b>  The Importance of Trade Related Intellectual Property Rights (TRIPs) Agreement During COVID 19 Pandemic to Encourage Research, Innovations and Commercialization  Hirimuthugodage D*
4.10-4.20 pm	<b>Screen break</b>	<b>Abstract ID: RLO-12</b>  Integrating Pandemic and Epidemic into Disaster Management and Disaster Risk Reduction Mechanisms of Sri Lanka: Status Quo of the Local Government Authorities  Hemachandra K*, Amaratunga D, Haigh R, Goonesekera H and Fernando P.R.N	<b>Discussion</b>

4.20-4.30 pm		<b>Discussion</b>	

### ***Technical Session - II***

	<b>Theme 04</b>  <b>Mental Health &amp; Well-Being</b>  <b>Chair: Prof. Athula Sumathipala</b> <b>Co-chair: Piyanjali de Zoysa</b>	<b>Theme 02</b>  <b>Resilience</b>  <b>Chair: Prof. Dilanthi Amaratunga</b> <b>Co-Chair: Dr Nishara Fernando</b>	<b>Cross-cutting theme 02: Building a robust and resilient supply chain</b>  <b>Chair: Prof. Ajantha S. Dharmasiri</b> <b>Co-Chair: Dr Trevis Mendis</b>
4.20- 4.30 pm	<b>Abstract ID: MWO-01</b>  Impact of COVID-19 Pandemic on the Subjective Wellbeing of the Executives in Private and Public Sector Organisations in Sri Lanka  Nagasena P.M.C.P* <sup>1</sup> , Weragoda R.B.L <sup>1</sup> , Dharmasiri A.S <sup>2</sup>	<b>Abstract ID: RLO-13</b>  A More Decentralized Governance Framework for Pandemic Response: A Multi-Stakeholder Approach for COVID-19 Preparedness and Planning in Sri Lanka  Kamalrathne T*, Amaratunga D, Haigh R	<b>Abstract ID: BRSO-01</b>  Analysis of Correlation of Risks in the Supply Chain Disruption in Apparel Industry during an Epidemic Outbreak  Perera M.A.S.M*, Wijayanayake A, Peter S
4.30-4.40 pm	<b>Abstract ID: MWO-02</b>  The Impact of Personality Dimensions and Associated Factors on COVID-19 Pandemic Related Risk Perception and Adherence Behaviour among University Undergraduates  Gunawardena T.J*, Dissanayake G.R.K, Bulathwatte A, Perera P.Y.O, Rathnayake R.M, Nirmani P.M.G.U, Hettiarachchi N	<b>Discussion</b>	<b>Abstract ID: BRSO-02</b>  Survey on Online Receipt of Prescriptions and Island Wide Door-step Delivery of Medicine through Rajya OsuSala and Private Pharmacies during COVID-19 Outbreak of Sri Lanka  Wickramasinghe S.C*, Kumarapeli V, Fernando N, Wickramasinghe A, Perera U, Senaratne A

	<b>Theme 04</b>  <b>Mental Health &amp; Well-Being</b> <b>Contd.....</b>	<b>Theme 06</b>  <b>Research, Invention and Innovation</b> <b>Co-Chair:</b> <b>Prof. Ajith De Alwis</b> <b>Mr Manju Gunawardena</b>	<b>Cross-cutting theme 02:</b>  <b>Building resilient &amp; robust supply chain</b> <b>Contd.....</b>
4.40- 4.50 pm	<b>Abstract ID: MWO-03</b>  Alcohol and Tobacco Usage during the COVID-19 Situation in Sri Lanka  De Seram H.S*, Tenna A.O.B; Sumanasekara P; Ranchigoda T.E; Selladurai N	<b>Abstract ID: RSO-01</b>  A Low-Cost Video Laryngoscope  Herath A* and Ambillapitiya T	<b>Abstract ID: BRSO-03</b>  Ensuring Uninterrupted Services for Non-Communicable Diseases (NCDs) Patients During COVID-19 Pandemic: Best Practices from Sri Lanka  Wickramasinghe S.C, Kumarapeli V*, Wickramasinghe A, Fernando N, Perera U, Senaratne A, Samarakoon Y, Talagala I.A, Gunawardena S, Sirithunga S, Perera C, Abeygunathilaka D.N, Nilaweera L, Kanchana G.D.T, Marikkar T.N, Abeykoon P.K, Rajasinghe S, Kandasamy C, Mohideen S and Rodrigo U.H.C
4.50- 5.00 pm	<b>Abstract ID: MWO-04</b>  Nurses' Experiences of Personal Protective Equipment and COVID-19: Point to Ponder  Wickramarachchi B* <sup>1</sup> , Samanmalie M.B.L <sup>2</sup> , Hettiarachchi M <sup>3</sup> , Perera B <sup>4</sup>	<b>Abstract ID: RSO-02</b>  Antimicrobial Effect of Newly Formulated Herbal Layer to Prevent Airborne Diseases  Jayaweera S.D.N.H*, Rajapaksha R.M.M.D and Ambillapitiya T	<b>Abstract ID: BRSO-04</b>  Sri Lankan Supply Chains - Lessons Learnt during COVID-19  Herath H.M.R.P* and De Alwis G
5.00-5.10 pm		<b>Abstract ID: RSO-03</b>  Distant ENT Examiner  Rizny M.S.M* and Ambillaitiya T	<b>Abstract ID: BRSO-05</b>  Lessons Learnt to Build a Robust and Resilient Agricultural Community and Agricultural Economy in Vavuniya in Pandemics  Karunainathan T*

5.10-5.20 pm		<b>Abstract ID: RSO-04</b>  Fight Against COVID-19” Programme Conducted by the Sri Lanka Inventors Commission  Rathnayake D.M.L*, Dolawatta N.N.W and Halwatura R.U	<b>Abstract ID: BRSO-06</b>  Healthcare Supply Chains in Sri Lanka: Responsiveness and Resilience during the COVID-19 Pandemic  Durairatnam S*, de Alwis G and Sohal A
5.20-5.30 pm		<b>Abstract ID: RSO-05</b>  Horizontal/Vertical Collapsible Low-Cost Face Shield  Thamel W.S.R*	<b>Discussion</b>
5.30-5.40 pm		<b>Abstract ID: RSO-06</b>  Low-Cost Negative Pressure Isolation Chamber  Kerner V* and Karunathilake C	
5.40-5.50 pm		<b>Discussion</b>	

**Day -2**  
**28<sup>th</sup> January 2021**

**Opening Session -Day 2**

**Chair: Prof. Nadeera Karunaweera**

8.30-8.35 am	<b>Opening Remarks</b> , Dr Palitha Abeykoon, WHO Director General's Special Envoy for COVID-19 for South East Asia ....
8.35-9.00 am	<b>Global Perspectives on COVID-19</b> , Dr Steven Hoffman, Scientific Director, Canadian Institute for Health Research (CIHR).
9.00-9.20 am	<b>Transmission of SARS-CoV-2 and implications for disease control</b> , Professor Raina MacIntyre, Professor of Global Biosecurity, NHMRC Principal Research Fellow and Head of the Biosecurity Program at the Kirby Institute, UNSW, Australia
9.20-9.40 am	<b>Responsible journalism in Pandemic situation</b> , Government Information Department

**Plenary Session – 3**  
**Chair: Dr Senaka Pilapitiya**

09.40- 9.55 am	<b>Prospects of containing COVID-19 through Indigenous Medicine</b> , Dr Kamal Perera by Senior Lecturer in Ayurveda, Institute of Indigenous Medicine (IIM), University of Colombo and honorary consultant physician in Ayurveda National teaching Hospital in Sri Lanka.
09.55-10.10 am	<b>Phyto-chemical and pharmacological aspects of Indigenous medicine</b> , Dr Sirimal Premakumara, Chairman, Industrial Technology Institute, Sri Lanka

<b>10.10-10.20 am</b>	<b>T E A</b>
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**Plenary Session – 4**  
**Chair: Prof Saroj Jayasinghe**

10.20- 11.00 am	<p><b>SARS-CoV-2: The Impact on the health, the economy and how new and known medications are providing patient care to mitigate fatalities in North America</b></p> <ul style="list-style-type: none"><li>- Prof Dilantha Fernando, Dean, University of Manitoba, Winnipeg, Manitoba, Canada</li><li>- Prof. Suranjith Seneviratne, Consultant in Clinical Immunology and Allergy, Institute of immunity and Transplantation, London, UK</li><li>- Prof. Deepthi Jayasekera, Emanate and San Dimas Hospitals, Western University, California, USA.</li><li>- Dr Gerard Iru Fernando, Director of Addiction Services &amp; General Psychiatrist, Psychiatric Wellness Center, Bakersfield, California, USA</li></ul>
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### Technical Session III

	<b>Theme 5</b> <b>Society</b> <b>Chair: Emeritus Prof. Siri Hettige</b> <b>Co-Chair: Dr Nishara Fernando</b>	<b>Theme 4</b> <b>Environment</b> <b>Chair: Emeritus Prof. Sarath Kotagama</b> <b>Co-Chair: Dr Chaminda Bandara</b>	<b>Theme 06</b> <b>Research, Invention and Innovation</b> <b>Chair: Prof. Ajith De Alwis</b> <b>Co-Chair: Mr Manju Gunawardena</b>
11.00 – 11.10 am	<b>Abstract ID: SCO-01</b>  Innovations in Teaching and Learning in Distance Mode during COVID-19 in Sri Lanka and Bangladesh  Gamage S.N <sup>*1</sup> , Zaber M <sup>2</sup>	<b>Abstract ID: ENO-01</b> Impact of COVID-19 Lockdown on Air Quality of Sri Lankan Cities  Senarathna M*, Jayaratne R, Morawska L, Guo Y, Knibbs L Abeyesundara S, Weerasooriya R, Bowatte G	<b>Abstract ID: RSO-07</b>  Development of Microorganism Diverting and Clearing Device to Mitigate the Risks Involved in Ambu Ventilating Patient Diagnosed with or Suspected to have a Contagious Respiratory Tract Infection, Including COVID-19.  Ariyaratna N.R.S*, Wageesha N.D.A and Mahawithanage S.T.C
11.10 – 11.20 am	<b>Abstract ID: SCO-02</b>  Risk Communication and Building Trust: Lessons from COVID-19  Bandaranayake R <sup>*1</sup> , Abeywardana D <sup>2</sup> , Sosa D.S <sup>3</sup> , Wang R <sup>3</sup>	<b>Abstract ID: ENO-02</b>  Rethinking Urban Water Cycle in View of COVID-19 in Sri Lankan Scenario  Vithanage M.S*	<b>Abstract ID: RSO-08</b>  QR Code Based Application Approach for Issuing Smart Curfew Passes  Herath H.M.G.G.K*, Etulgama H.M.R.B, Rathnathilaka R.W.M.D.D and Herath H.M.K.G.C.B
11.20 – 11.30 am	<b>Abstract ID: SCO-03</b>  Impact of COVID-19 on Socio-Economic Status and Food Security of Tea Smallholders in Sri Lanka  Nadeeshani K.W.N*, Shyamalie H.W, Rathnayaka A.M.T, Wimalaratne W.T.R.P	<b>Abstract ID: ENO-03</b>  Post COVID-19 Agriculture: The Way Forward  Kulasooriya S.A*, Seneviratne G, Seneweera S	<b>Abstract ID: RSO-09</b>  Development of a Pneumatically Driven, Time-Cycled Ventilator with User Determined Volume and Pressure Control Capability  Dampage U*, Pullaperuma D.S.P, Gunaseela J, Dissanayake P and Bandara D

11.30 – 11.40 am	<b>Abstract ID: SCO-04</b>  Impact of COVID-19 Pandemic on the Learning Process of Undergraduates: Current and Future Implications  Pathberiya H.A*, Rajanayagam N, Gunaratne L and Amarasinghe P	<b>Abstract ID: ENO-04</b>  Rethinking Urban Public Space Design in the Adaptive Re-Use of Built Environment in the Post Pandemic Era  Kawshalya L.W.G*, Dissanayake C, Weerasinghe U.G.D, Chandrasekara D.P, Dharmasena S.W.J.H	<b>Abstract ID: RSO-10</b>  Drone Network to Combat Impending COVID-19 Pandemic Conditions  Dampage U, De Alwis S, Jayah I and Thuduwege V
11.40-11.50 am	<b>Abstract ID: SCO-05</b>  State response to COVID-19 in Sri Lanka and Uncovering Social Distancing Experience in Socio-Cultural Context  Liyanage C*	<b>Abstract ID: ENO-05</b>  Can Green Cleaning Make Ready the Public Realm for COVID-19?  Rathnasiri A.K.N.E*, De Silva N and Wijesundara K.W.J.P	<b>Abstract ID: RSO-11</b>  Development of Novel Therapeutics for COVID-19  Herath C.B*, Hettiarachchi S, Guruge K.S, Wijayagunawardane M.P.B, Rajapaksha H.K, and Seneweera S
11.50-12.00 pm	<b>Abstract ID: SCO-06</b>  COVID-19 and the Pandemic of Hate Speech in Sri Lanka  Silva K.T*	<b>Abstract ID: ENO-06</b>  Significance of Sustainable Urban Planning and Development in Pandemic Scenario, COVID-19; Social, Economic and Environmental Perspectives in Sri Lanka  Gunarathna U*, Bandara C.S and Dissanayake P.B.R	<b>Abstract ID: RSO-12</b>  WGS Metagenomics Vs Targeted Sequencing: Which is Better for Pathogen Identification and Characterization  Jeewandra C, Jayathilaka D.C, Ranasinghe D.S*, Ariyaratne M.H.J.D, Gomes L, Wijewickrama A, Karunaratne M, Ogg G.S and Malavige G.N
12.00-12.10 pm	<b>Abstract ID: SCO-07</b>  Social Impact of COVID-19 Pandemic in Sri Lanka and its Implications for achieving SDG's  Hettige S*	<b>Discussion</b>	<b>Abstract ID: RSO-13</b>  Development of a New Catheter Device to Improve Patient's Quality of Life and Reduction of Catheter Associated Urinary Tract Infection for Long Term Folly's Catheter Users



			Jayarathna D.G.A.I*
12.10-12.20 pm	<b>Abstract ID: SCO-08</b>  Sri Lanka's Recovery Under the New Normal: The Need for a Paradigm Change  Pinnawala S.K*		<b>Discussion</b>
12.20-12.30 pm	<b>Discussion</b>		

<b>12.30-01.00 pm</b>	<b>LUNCH</b>		
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## Plenary Session 5

### Chair: Dr A.P. Kiriwandeniya

01.00 -01.20 pm	<b>Community Engagement in COVID-19</b> , Dr Vinya S Ariyaratne, General Secretary of Sarvodaya, Senior Lecturer in Community Medicine, Faculty of Medical Sciences, University of Sri Jayewardenepura in Sri Lanka.
01.20- 01.40 pm	<b>Economic impact of COVID-19 and Resilient Economic Recovery</b> , Dr W.A. Wijewardena., Former Deputy Governor of Central Bank of Sri Lanka

### Panel Discussion on ‘Education During Pandemic Situation’

**Moderated by Dr Chandra Embuldeniya**

01.45 -01.50 pm	<b>Opening remarks</b> , Prof. Ranjith Senaratne, Chairman, NSF
01.50 -02.00 pm	<b>Introduction to the discussion</b> , Dr Chandra Embuldeniya, Founder Vice Chancellor, Uva Wellassa University of Sri Lanka
02.00 -2.20 pm	<b>Policies, strategies, and other interventions to build a resilient general education system in the Country</b> , Dr M.Upali Sedara, Secretary to the State Ministry of Education Reforms, Open Universities & Distance Learning Promotion
02.20 -02.40 pm	<b>Higher education during pandemic situation</b> , Snr. Professor Sampath Amaratunga, Chairman, University Grant Commission
02.40-03.00 pm	<b>Tertiary and Vocational Education during Pandemic situation</b> , Mr Janaka Jayalath, Director, Tertiary Vocational Education
03.00-03.20 pm	<b>Discussion, Way forward and concluding remarks</b>

**3.20-3.30**

**T E A**

## **Policy Dialogue**

**Lotus Hall, BMCH**

**28 January 2021**

### **Building a Robust and Resilient Community and Economy** **Moderated by Prof Ranjith Senaratne and Prof Dilanthi Amaratunga**

**03.30 - 03.35 p.m.** Welcome Address  
**Prof. Ranjith Senaratne**, Chairman, National Science Foundation

Areas to be discussed:

- Health impacts
- Economic impacts
- Impact of politics and policies
- Education, human resource development and science & technology as response
- Research and Ethics

**03.35.-04-00 p.m.** Theme Chair presentations

1. Emeritus Prof. Siri Hettige
2. Emeritus Prof. Sarath Kotagama
3. Prof. Saroj Jayasinghe
4. Prof. Athula Sumathipala
5. Prof. Ajith De Alwis
6. Prof. Dilanthi Amaratunga
7. Dr. Nishan De Mel
8. Prof. Ajantha S. Dharmasiri

**04.00- 04.25 p.m.** Presentations by Panelists

1. Dr W.A.W. Wijewardena
2. Major General Sudantha Ranasinghe
3. Mr Shiran Fernando
4. Dr. Susie Perera
5. Dr Dushni Weerakoon

**04.25 -04.45 p.m.** Discussion, Closing Remarks and the Way Forward

**END**