

REPORT OF CONFERENCE ON
“Engaging India and Canada: Challenges of Sustainable Development Goals”
INDIA HABITAT CENTRE, NEW DELHI
June 8-9, 2018



On the Dias: from left to right: Prof.Faizan Mustafa, Vice-President / President-Elect, Shastri Indo- Canadian Institute ; Prof.Anil K. Mehrotra, Secretary-Treasurer & Conference Coordinator, Shastri Indo-Canadian Institute; Dr.Ashok K. Jain, Adviser (RD & SDGs), NITI Aayog; H.E. Mr.Nadir Patel, High Commissioner of Canada to India, Canadian High Commission; Prof. Girish Shah, President, Shastri Indo-Canadian Institute; Dr. N. Saravana Kumar Joint Secretary , Department of Higher Education, MHRD; Dr. Prachi Kaul, Director, Shastri Indo-Canadian Institute

On June 8- 9 2018, Shastri Indo-Canadian Institute organized a conference titled “**Engaging India and Canada: Challenges of Sustainable Development Goals**” with support from MHRD, Government of India at India International Centre, New Delhi. The deliberations in the Conference focused on bridging two divides that constrain current SDG scholarship and discourse: one between individual countries such as Canada and India as they each address the challenges of the SDGs, as well as the divisions that separate academic disciplines and categories. The conference brought together members of the interdisciplinary network of SICI-affiliated researchers in Canada and India.

The conference also overcame the divisions between disciplinary and purely national approaches to sustainable development. Most importantly, the conference strengthened and

promoted Canadian and Indian scholarship, boosted bi-national networking, training and mentoring opportunities.

The Conference provided a platform for a new cadre of researchers from India and Canada to present their work and discuss further academic and institutional collaborations between Indian and Canadian universities and research institutes (**For List of Participants refer Annexure 1 below**).

The Inaugural Session began with the Vice-President/ President-Elect of Shastri Institute, Prof. Faizan Mustafa welcoming the participants from India and Canada and also the distinguished guests. Prof. Girish Shah, the President of Shastri Institute, highlighted the role of the Shastri Institute in working towards achieving Sustainable Development Goals. The Secretary Treasurer of Shastri Institute & Conference Coordinator, Prof. Anil Mehrotra gave an overview of the conference stating that the main objective of this conference was to consolidate and enhance the Canada and India research partnership in order to meet the challenges of Sustainable Development Goals. Prof. Mehrotra informed everyone that this year's theme relating to Sustainable Development was proposed by Prof. Margaret Walton-Roberts, who is a Member-at-Large of Shastri Institute's Executive Council. He further stated the theme areas of the conference - Community Well-Being, Reducing Inequalities, Improving Health, Sustainable Energy Development and Environmental Sustainability. He briefed the audience regarding the receipt of 273 abstracts from 114 institutions on eight themes of the conference, out of which 59 were selected for presentation at the conference. This was followed by a lamp lighting ceremony by all the dignitaries present at the dias.

His Excellency, Mr. Nadir Patel, High Commissioner of Canada to India in his inaugural address congratulated the Institute for celebrating its Golden Jubilee year and wished it continued success for the next fifty years. He said that SICI has done some amazing work in last five decades and plays an important role in also being ambassador for both Canada & India. In his address he highlighted the astronomical growth of Indian students in Canada over the last few years and stated that he would like to see more Canadian students in India as well through study tours, exchanges, modules and ultimately through joint degree/ dual degree programs. He also said that we need to expand the nature of educational relationship between Canada and India - there are more opportunity for greater Faculty Exchanges; train the trainer programs, executive education programmes tailored to different organizations, and he said that more can be done in capitalizing on the Alumni network in both the countries of Universities from both Countries. He further said that the Shastri Institute is the centre of promoting academic and cultural ties between India and Canada and is an important stakeholder in Higher Education Cooperation MoU between India and Canada.

After the Inaugural address, a publication of papers presented at the International Congress titled '**Etudes quebecoises en Inde et a l'etranger**' held on March 29-31, 2017 at Shimla by Dr. Shakti Kapoor, was launched. This publication was funded by Shastri Indo-Canadian Institute.

Dr. N. Saravana Kumar, Joint Secretary, Department of Higher Education, Ministry of Human Research Development gave the special address at the Conference. He congratulated Shastri Institute on successfully completing 50 years. He spoke about the main challenges of the Indian Educational System being skewed Educational progress of the country, Low

Employability in Education Sector, Research and Low Global Rankings of Indian Institutions. He highlighted on the new initiatives of Ministry of Human Resource Development in his address viz. Unnat Bharat Abhiyan, IMPRINT and Uchchtar Avishkar Yojna. He also spoke about the recent launch of 'Study in India' Program which promotes India as the study destination for foreign students from 30 countries presently. He also spoke about GIAN programme and the scheme for promotion of Research and Academic collaborations in about 25 countries. He concluded his address by committing MHRD's support for Shastri Institute.

Dr. Ashok K. Jain, Adviser (RD & SDGs), NITI Aayog gave the keynote address on challenges of sustainable development goals faced by India. He spoke of the seventeen SDG's and its 169 targets which is applicable to all the countries. He stated that NITI Aayog has been entrusted with responsibility of overseeing the implementation of SDG's in India and the Ministry of Statistics & Programme implementation was asked to monitor and evaluate how India is performing on these SDG's. The core principle for implementation of SDG's in India was the 'Collective Efforts and Inclusive Growth'. He talked about the mapping of programmes of all the ministries of Government of India to all the SDG's. He also spoke about the upcoming National Dashboard on SDG's which will display the progress made on each goal and live information shall keep flowing from all concerned. He further stated that all SDG's are interconnected and have universality. He spoke of India's targets for clean energy, housing, drinking water, proper sanitation, creation of carbon sink. He told that despite India being a country with a large population, we are going strong in achieving SDG's. He stated that capacity building and SDG financing were the key challenges for the implementation of SDG's. At the end he congratulated the Institute on completion of its fifty years. The Inaugural session, ended with a vote of thanks given by Dr. Prachi Kaul, Director, India Office.

After the Inaugural session there were twelve sessions held over the two days where papers were presented by fifty eight (58) presenters from both India and Canada. Four parallel sessions each were held from 11:15 am to 1:15 pm on 8th June 2018. The first parallel session on '**Community Well-Being**' was co-chaired by **Prof. Braj Sinha**, Department of Religious Studies and Culture, University of Saskatchewan and **Prof. Ravishankar Rao**, Department of English, Mangalore University and had five presentations. These were:

1. Engaging with Environment: Myth, Storytelling and Sustainability
2. Traditional Knowledge and Community Well-Being: Environmental Sustainability in North East India and Canada
3. A Cross-Cultural Comparison the Traditional Healing Practices in India and Canada
4. Biology, ideology, and the problem of patriarchy: Mahila Shanti Sena - a women's movement for self-driven empowerment and gender equality
5. Gender Inequality and Ill-Health: The Role of Caste and Class In Tamil Nadu

The second parallel session on '**Improving Health**' was co-chaired by **Prof. Pratima Tatke**, Department of Pharmaceutical Chemistry, SNDT Women's University and **Prof. Selvadurai Daya Dayanand**, Department of Biology, Concordia University and had four presentations:

1. Collaborative Initiatives between India and Canada on Health and Disease Research: Impact of Shastri Indo-Canadian Institute (SICI) Grants
2. Case based Learning, Professionalism and Global Health Capacity Building: A Binational Alliance for Improving Health through Quality Medical Education

3. Risk pooling through Public Health Insurance Schemes: A Challenge to Reduce Poverty in India

4. Elderly Health in India: Through the Lenses of Social Capital Theory

Development of an Affordable Point-of-Use Disinfection System for Rural India

The third parallel session on ‘**Sustainable Energy Development**’ co-chaired by **Prof. S. P. Chaurasia**, Malviya National Institute of Technology Jaipur and **Prof. Sada Niang**, Department of French, University of Victoria had five (5) papers from Indian and Canadian researchers. Papers were:

1. Solar Energy: Walking Towards Sustainable Development Goals

2. Trade in Clean Energy Technologies and Opportunities for Co-Operation – The Case of Canada and India

3. Analyzing the Electric Vehicle Innovation System of Canada: Policy Lessons for India towards Sustainable Development

4. Optimized Agricultural Power Tariffs as a Means of Achieving Sustainable Developments Goals in India

5. Sustainable Energy Development and Cities in India: A Case Study of Implementation of Solar City Programme in Chandigarh

The fourth parallel session on ‘**Environmental Sustainability**’ co-chaired by Dr. Thomas Mathew, Science & Technology, Gujarat National Law University and Dr. Gary Markle, Fashion Department, NSCAD University had five (5) papers from Indian and Canadian researchers. Papers were:

1. Implementation of Access and Benefit Sharing Mechanism with Responsible Consumption and Production of Biological Resources (SDG 12): A Study on India and Canada

2. Vacuum Membrane Distillation for Treatment of Saline Water using PVDF Membranes

3. Demonstration of Innovative, Integrated and Interdisciplinary Canadian Technology for Industrial Soil Reclamation in Punjab, India

4. Comparative Analysis of Erosion, Sea level Rise and Subsidence of the Nelson River Estuary Manitoba, Canada and the Ganges River Estuary West Bengal, India

5. Risk Assessment of Agricultural Amendments

These were followed by another set of four parallel sessions each from 2:15 pm to 4:15 pm on 8th June 2018. The first parallel session on ‘**Community Well-Being**’ was co-chaired by **Prof. S. B. Dash**, Center for Marketing in Emerging Economies, Indian Institute of Management Lucknow and **Prof. John Reid**, Department of History & Atlantic Canada Studies Program, Saint Mary’s University and had four presentations. These were:

1. Are the Millennial Generation’s Travel Patterns Sustainable? Evidence from Canada

2. Discontents of Sustainable Mobility in Indian Cities

3. Co-Design: A Process of Community Participation in Post-disaster Reconstruction

4. Field Learning on Design for Sustainability in Design Education - Shared Vision and Global Partnerships

The second parallel session on ‘**Reducing Inequalities**’ was co-chaired by **Dr. Chandra Mohan**, International Comparative Literature Association and **Prof. Sheila Embleton**, Department of Languages, Literature and Linguistics, York University and had six presentations:

1. Hijras of Mumbai and the Recent Judgment of India Supreme Court on Transgenders
2. Abhorred, Disdained and Secluded - Locating Women belonging to the Denotified Tribes of India
3. Women, Multiculturalism and Minority Rights: A Snapshot of Canada and India
4. Need for Redistribution of Agriculture Land in India
5. Challenges towards Empowerment: Reconstructing Narratives of Homeless Individuals with Severe Mental Illness in India
6. Income Inequality and Human Well-being: Why do we Need to Shift our Focus?

The third parallel session on ‘**Sustainable Energy Development**’ was co-chaired by **Prof. Manzoor Shah**, Department of Botany, University of Kashmir and **Prof. Daniel F. Coleman**, Faculty of Business Administration, University of New Brunswick and had six presentations:

1. Development of Green Catalyst for Biodiesel Production from Soybean Oil
2. Valorization of Household Food Wastes through Supercritical Water Gasification for Hydrogen-rich Syngas Production
3. Clean Energy for Transportation: Next-Generation Fuel Cells
4. Crossflow Turbine Design for Remote Power Systems
5. Enhancement of the Chemical Properties of Bio-oil as a Sustainable Energy Replacement for Petroleum Based Fuels
6. Bifunctional Catalyst for Efficient and Economical Conversion of Biomass-derived CO₂ Containing Syngas into Synthetic Diesel

The fourth parallel session from 2:15 -4:15 pm on ‘**Environmental Sustainability**’ was co-chaired by **Prof. S.M. Joshi**, Department of Economics, M.S. University of Baroda and **Prof. Julie McMullin**, Department of Sociology, Western University. This session had five presentations:

1. Advances in CO₂ Capture using Solid Sorbents
2. Role of Biochar Based Sustainable Green Technology in Water Treatment Systems
3. Commodification of Water: A Case Study of Khetri Copper Mining Region, Rajasthan, India
4. An Onsite Demonstration Study on Floating Filters for Wastewater Drains
5. Biodegradable Plastics for Commodity, Engineering and Biomedical Applications

The Second day of the Conference again began with four parallel sessions from 11: 30 am to 1: 30 pm. The first parallel session on ‘**Improving Health**’ was chaired by **Dr. A. B. Patil**, University of Agricultural Sciences Bangalore and **Dr. Balakrishnan Prithviraj**, Department of Environmental Sciences, Dalhousie University and had six presentations:

1. Design of Novel Dietary and Therapeutic Interventions to Power the Aging Muscle in Sarcopenia, a Morbid Geriatric Disease
2. The Health and Wellbeing of Inuit Communities in Canada
3. Mental Health and Wellbeing: Informing the SDGs with Culture and Context: The Experience of a Maternal Mental Health Research Collaborative in Rural Rajasthan
4. A Pragmatic Plasmodium falciparum Glutamate Dehydrogenase based Sensor for Malaria Diagnosis
5. Leaving no One Behind: Healthy Aging, Social Inclusion, and the SDGs

6. Development of an Affordable Point-of-Use Disinfection System for Rural India

The second parallel session from 11:30 am to 1:30pm on ‘**Reducing Inequalities**’ was chaired by **Prof. G.Gopa Kumar**, Central University Of Kerala and **Dr. Sunera Thobani**, Department of Asian Studies, Institute for Gender, Race Sexuality and Social Justice, University of British Columbia. The five papers presented were titled as:

1. Integrating Elderly into Community: A Socio-Economic Model
2. Employment Equity and Reservations Impact on the SDGs
3. Impact of 2030 Agenda for Sustainable Development on Population Ageing Research in India with Learnings from Canada
4. Sustainable Community well-being: A Conceptual Framework Community Well-being for India
5. Frame Work For Co-operation Between India And Canada on Countering Terrorism and Violent Extremism: A Study of Cyber Dome and Coastal Security alert ` Committees in Kerala.

The third parallel session from 11:30 am to 1:30pm was a workshop on “**Why Sex and Gender Matter in Social Science and Health Research and Policy: It Matters for Good Science**” was chaired by **Prof. Suchorita Chattopadhyay**, Department of Comparative Literature, Jadavpur University and **Prof. Bilkis Vissandjée**, Faculty of Nursing, University of Montreal. The workshop had presentation on :

1. Canadian Perspective on Good Science: Why Sex and Gender Matters
 2. Why Sex and Gender Matters: The Case of TB and Gender-based Violence and
 3. Why Sex and Gender Matters: The Case of Diabetes Type 2
- This was followed by an Interactive Discussion: Why Sex and Gender Matters in Reference to Participants’ and the ‘Lessons Learnt’.

The fourth parallel session from 11:30 am to 1:30 pm on ‘**Smart Cities, Technology and Communities**’ was chaired by **Dr. A. K. Mishra**, Indian Institute of Technology Madras **Dr. Derek Johnson**, Faculty of Arts, University of Manitoba. The five papers presented were titled as:

1. Does India Needs Smart City! Not Eco City? Hypothetical Analysis of Ecological Modernisation of SmaEco City (Smart + Ecological) Model for Sustainable Urban Development
2. Access to water across smart cities in India: Issues and Challenges
3. E- Waste Management for Environment Sustainability: Strengthening Communication Strategies for Community Participation
4. Communication Technologies Used by Police Department for Community Participation and Relation
5. A New Framework to Secure Electronic Patient Record for E-Healthcare Applications in India

The Conference ended with **Concluding Session** where all the twenty four co-chairs of the twelve sessions of the conference presented their session’s summary and all the Executive Council Members and Dr.Prachi Kaul, Director India Office summed up the conference

discussions. The Shastri Institute thanked the Ministry of Human Resource Development and the Global Affairs Canada for funding the Conference. Ms.Anju Taneja, Finance Officer gave a vote of thanks.

A '**Book of Abstracts**' consisting theme wise papers presented at this conference was printed and distributed to all the paper presenters.

List of Participants

S.No	NAME OF THE GUEST	INSTITUTIONAL DETAILS
1	BERNARD FRANCIS	HIGH COMMISSION OF CANADA
2	SITARA THOBANI	MICHIGAN STATE UNIVERSITY
3	UTTARA	BIT NOIDA
4	A.K.PATNAIK	
5	KIRTI SAROHA	DEPARTMENT OF COMMERCE,DSE,DELHI UNIVERSITY
6	PROF. I.S.THAKUR	J.N.U.
7	PROF.DEBALSINGHALROY	IGNOU
8	DR.PRAVA DEBAL	IREDA , NEW DELHI
9	DEVI RAJ	CANADIAN STUDIES , JNU
10	RAVI RANJAN	DELHI UNIVERSITY
11	SHASHANK VYAS	TERI
12	JADDEEP CHOPRA	SHADWANI SAMACHAR
13	DR.S.N.RAO	DELHI UNIVERSITY
14	ARDEEP PANESAR	BMI CONTNUIA KIDS
15	RICHA SHARMA	INDIAN INSTITUTE OF TECHNOLOGY DELHI
16	UPMA SINGH	INDIAN INSTITUTE OF TECHNOLOGY DELHI
17	DR.MANJU CHHUGANI	JAMIA HAMDARD UNIVERSITY
18	PULAK AVANASHI	MNIT

IMC MEMBERS

19	PROF. RAJANI RANJAN JHA	BANARAS HINDU UNIVERSITY
20	DR. RAM NARAYAN PANDA	BERHAMPUR UNIVERSITY
21	PROF. GOPA KUMAR	CENTRAL UNIVERSITY OF KERALA
22	PROF.P.R.SAHU	INDIAN INSTITUTE OF TECHNOLOGY BHUBANESHWAR
23	PROF S.B.DASH	IIM LUCKNOW
24	PROF. ADRIJIT GOSWAMI	IIT KHARAGPUR
25	PROF. SUCHORITA CHATTOPADHYAY	JADAVPUR UNIVERSITY
26	DR. SUCHETA PATHANIA	UNIVERSITY OF JAMMU
27	PROF. B. HARIHARAN	UNIVERSITY OF KERALA,
28	PROF. RAVISHANKAR RAO	MANGALORE UNIVERSITY
29	PROF.N.SIVA KUMAR	UNIVERSITY OF HYDERABAD

30	PROF. FAIZAN MUSTAFA	NATIONAL ACADEMY OF LEGAL STUDIES AND RESEARCH UNIVERSITY OF LAW
31	PROF. (DR.) SRIKRISHNA DEVA RAO	NATIONAL LAW UNIVERSITY ODISHA
32	PROF. JAMUNA DUVVURU	SRI VENKATESWARA UNIVERSITY
33	DR. CHANNA M BASAVAIAH	OSMANIA UNIVERSITY
34	PROF.KOSHY THARAKAN	GOA UNIVERSITY
35	DR.MOHAR DAS CHAUDHURI	CALCUTTA UNIVERSITY
36	PROF.RITU GUPTA	NATIONAL LAW UNIVERSITY DELHI
37	PROF.S.M.JOSHI	M.S.UNIVERSITY BARODA
38	DR.SACHIN LABADE	MUMBAI UNIVERSITY
39	DR.JAGDISH JOSHI	GUJARAT UNIVERSITY
40	DR.A.B.PATIL	UNIVERSITY OF AGRICULTURAL SCIENCES BANGALORE
41	PROF.K.N.RAGHAVAN	THE INSTITUTE OF MATHEMATICAL SCIENCES
42	PROF.PRATIMA TATKE	SNDDT WOMEN'S UNIVERSITY MUMBAI
43	PROF.THOMAS MATHEW	GUJARAT NATIONAL LAW UNIVERSITY
44	PROF.MANZOOR SHAH	UNIVERSITY OF KASHMIR
45	DR.A.K.MISHRA	INDIAN INSTITUTE OF TECHNOLOGY MADRAS
46	PROF.SREEDEVI UPADHYAULA	INDIAN INSTITUTE OF TECHNOLOGY DELHI
47	PREETAM KUMAR	INDIAN IINSTITUTE OF TECHNOLOGY PATNA
48	DR.DHEEMAN BHATTACHARYA	VISWA BHARATI SANTINIKETAN
49	PROF.KAMALA SANKARAN	TAMIL NADU NATIONAL LAW SCHOOL
50	DR.SHAKTI KAPOOR	HIMACHAL PRADESH UNIVERSITY
51	PROF.MUKESH RANJAN	JAMIA MILLIA ISLAMIA
	CMC MEMBERS	
52	PROF . GIRISH M . SHAH	SHASTRI INDO CANADIAN INSTITUTE
53	PROF.ANIL MEHROTRA	SHASTRI INDO CANADIAN INSTITUTE
54	HARRY SHARMA	CARLETON UNIVERSITY
55	PROF.JOHN REID	SAINT MARY'S UNIVERSITY
56	PROF,SHEILA EMBLETON	YORK UNIVERSITY
57	PROF.SELVA DURAI DAYANANDAN	CONCORDIA UNIVERSITY
58	PROF.C.RAVI RAVINDRAN	RYERSON UNIVERSITY
59	PROF.BRAJ SINHA	UNIVERSITY OF SASKATCHEWAN
60	PROF.SUNERA THOBANI	UNIVERSITY OF BRITISH COLUMBIA
61	DR.GARY MARKLE	NSCAD UNIVERSITY
62	PROF.DANIEL F. COLEMAN	UNIVERSITY OF NEW BRUNSWICK
63	PROF.JULIE MCMULLIN	WESTERN UNIVERSITY
64	DR.BALAKRISHNAN PRITHVIRAJ	DALHOUSIE UNIVERSITY

65	DR.DEREK JOHNSON	UNIVERSITY OF MANITOBA
66	CHRISTOPHER BUSCH	UNIVERSITY OF WINDSOR
67	SADA NIANG	UNIVERSITY OF VICTORIA
68	PRABHJOT PARMAR	UNIVERSITY OF FRASER VALLEY

Paper Presenters

69. Ajay Agarwal
70. Anirban Mukhopadhyay
71. Ajay Basak via Skype
72. Amita Pitre
73. A.C.Choolayil
74. A. C. Thipaaiah
75. Bharti Chibber
76. Balsher Singh Sidhu via Skype
77. B.Sajikumar
78. Bilkis Vissandjee
79. C.S.Bahinipati
80. Chongom A. Aimol
81. Deepshikha Dash
82. Debashree Dattaray
83. Dhvaj Khattar
84. Harmanjot Antal
85. Ishrat Husain
86. Jaskiran Dhiman
87. K.Annapuramam
88. Karan Khetani
89. Karuna Mehta
90. Kankana Narayan Dev
91. Kalyani Sahal
92. Lightson Ngashangva
93. Madhav Badami
94. Mathieu Boisvert
95. Meetu Khosla
96. M.L.Tantri
97. M.S.Sapna
98. Nadir Mahinpey
99. Neeta Raj Sharma
100. Philp Bernstein Seynik
101. Prama Bhattacharya
102. Pooja
103. Ram Chandra Adhikari
104. Rachna Johri
105. Rajiv Kumar
106. Ravi Mokashi Punekar

107. Roseena Nasir
108. Raksha Sule
109. Shabir A.Parah
110. Shruti Das
111. Shova Devi
112. Shanthi Johnson
113. Shihabudeen M.Maliyekkal
114. Shruti Nagpal
115. Somil Nanda
116. Shashi Kant Srivastava via Skype
117. S.P. Chaurasia
118. Shilpi Sharma
119. Shashank Vikram Pratap Singh
120. Vimal Katiyar
121. Vrinda Narain
122. Vandana Panda

Chair:

123. Dr.Chandra Mohan

Shastri India office

124. Dr. Prachi Kaul
125. Ms. Zakiya Tasnim
126. Ms. Reshma Rana Verma
127. Ms. Meenakshi Malhotra
128. Ms. Anju Taneja
129. Mr. Manohar Lal
130. Mr. Gokul Joshi
131. Mr. Anil Kumar



PROGRAMME

**CONFERENCE ON ENGAGING INDIA AND CANADA:
CHALLENGES OF SUSTAINABLE DEVELOPMENT GOALS**

**June 8-9 2018, The Multi-Purpose Hall, India International Centre
New Delhi**

Friday June 8, 2018

9:15 – 9:30 AM Registration

INAUGURAL SESSION – 9:30 – 11:15 AM

- 9:30 – 9:35 am Welcome by **Prof. Faizan Mustafa**
Vice-President / President-Elect, Shastri Indo-Canadian Institute
- 9:35 – 9:40 am Role of Shastri Indo-Canadian Institute in achieving Sustainable Development Goals by **Prof. Girish Shah**, President, Shastri Indo-Canadian Institute
- 9:40 – 9:45 am Overview of the Conference by **Prof. Anil Mehrotra**, Secretary-Treasurer, Shastri Indo-Canadian Institute
- 9:45 – 9:55 am Opening of Conference by the Dignitaries- Lighting of the Lamp
- 9:55 – 10:10 am Inaugural Address by **H.E. Mr. Nadir Patel**, High Commissioner of Canada to India, High Commission of Canada in India
- 10:10 – 10:25 am Special Address by **Dr.N.Saravana Kumar, Joint Secretary, Higher Education**, Ministry of Human Resource Development
- 10:25 – 10:55 am Keynote Address by **Dr. Ashok Kumar Jain, Advisor (RD & SDGs), Niti Aayog**
- 10:55 – 11:00 am Vote of thanks and way forward by **Dr. Prachi Kaul**, Director, Shastri Indo-Canadian Institute

11.00 – 11.15 AM TEA BREAK

PARALLEL SESSION 1 A: THEME 1A- Community Well-Being**The Hall, Time: 11:15 AM – 1:15 PM**

Paper	Speaker & Co-Authors
Co-Chairs: Prof. Ravishankar Rao, Department of English, Mangalore University Prof. Braj Sinha, Department of Religious Studies and Culture, University of Saskatchewan	
Engaging with Environment: Myth, Storytelling and Sustainability	S. Das Department of English, Berhampur University
Traditional Knowledge and Community Well-Being: Environmental Sustainability in North East India and Canada	D. Dattaray Centre for Canadian Studies, Jadavpur University, Kolkata
A Cross-Cultural Comparison the Traditional Healing Practices in India and Canada	M. Khosla Psychology Department, Daulat Ram College, University of Delhi
Biology, ideology, and the problem of patriarchy: Mahila Shanti Sena - a women's movement for self-driven empowerment and gender equality	R.S. Singh Department of Biology, McMaster University, Hamilton
Gender Inequality and Ill-Health: The Role of Caste and Class In Tamil Nadu, India	K Annapuranam CSSCD, Institute for Social and Economic Change, Bangalore
Discussion/QA	

PARALLEL SESSION 1 B: THEME 3 A – Improving Health**The Seminar Hall 2, Time: 11:15 AM - 1:15 PM**

Paper	Speaker & Co-Authors
Co-Chairs: Prof. Pratima Tatke, Department of Pharmaceutical Chemistry, SNDT Women's University Prof. Selvadurai Daya Dayanand, Department of Biology, Concordia University	

Collaborative Initiatives between India and Canada on Health and Disease Research: Impact of Shastri Indo-Canadian Institute (SICI) Grants	A. Basak ; A. J. Purty; A.K. Das Pathology and Laboratory Medicine, Faculty of Medicine, University of Ottawa; Community Medicine, PIMS, Puducherry; Chemistry Department of Biotechnology, IIT Kharagpur
Case based Learning, Professionalism and Global Health Capacity Building: A Binational Alliance for Improving Health through Quality Medical Education	R. Sule ; S. Ginsberg; I. Silver; A. Jain; M. Mylopoulos Wilson Centre, University of Toronto; Department of Medicine, University of Toronto; Department of Psychiatry, University of Toronto, Department of Community Medicine, Kasturba Medical College; The Wilson Centre, University of Toronto
Risk pooling through Public Health Insurance Schemes: A Challenge to Reduce Poverty in India	R. Nasir Centre for the Study of Discrimination and Exclusion, Jawaharlal Nehru University, Delhi
Elderly Health in India: Through the Lenses of Social Capital Theory	S.K. Srivastava Indian Institute of Management Indore
Discussion/QA	

PARALLEL SESSION 1C: THEME 4A- Sustainable Energy Development

The Seminar Hall 3, Time: 11:15 AM - 1:15 PM

Paper	Speaker & Co-Authors
Co-Chairs: Prof. S.P.Chaurasia, Malviya National Institute of Technology Jaipur Prof. Sada Niang, Department of French, University of Victoria	
Solar Energy: Walking Towards Sustainable Development Goals	B. Chhibber Department of Political Science, University of Delhi, Delhi
Trade in Clean Energy Technologies and Opportunities for Co-Operation – The Case of Canada and India	M. L. Tantri ; V. Bhat Centre for Economic Studies and Policy (CESP), Indian Institute for Social and Economic Change (ISEC), Bengaluru; Christ University, Bengaluru
Analyzing the Electric Vehicle Innovation System of Canada: Policy Lessons for India towards Sustainable Development	R. Kumar Centre for Studies in Science, Technology and Innovation Policy, School of Social Sciences, Central University of Gujarat, Gandhinagar
Optimized Agricultural Power Tariffs as a Means of Achieving Sustainable Developments Goals in India	B.S. Sidhu Institute for Resources, Environment and Sustainability (IRES), University of British Columbia, Vancouver, BC, Canada

Sustainable Energy Development and Cities in India: A Case Study of Implementation of Solar City Programme in Chandigarh	S. Singh; K. Mehta Department of Public Administration Panjab University, Chandigarh
Discussion/QA	

PARALLEL SESSION 1D: THEME 5 A- Environmental Sustainability

The Seminar Hall 1, Time: 11:15 AM - 1:15 PM

Paper	Speaker & Co-Authors
Co-Chairs: Dr. Thomas Mathew, Science & Technology, Gujarat National Law University Dr. Gary Markle, Fashion Department, NSCAD University	
Implementation of Access and Benefit Sharing Mechanism with Responsible Consumption and Production of Biological Resources (SDG 12): A Study on India and Canada	S. Devi Rajiv Gandhi School of Intellectual Property Law, Indian Institute of Technology, Kharagpur
Vacuum Membrane Distillation for Treatment of Saline Water using PVDF Membranes	Pooja; R.R. Farnood; G. Tomar, P. Vashistha; V. Kumar Indian Institute of Technology, Delhi
Demonstration of Innovative, Integrated and Interdisciplinary Canadian Technology for Industrial Soil Reclamation in Punjab, India	N.R. Sharma; R. Gupta; M. Garg; P. Azarsa; C. Valeo; R. Kanwar; S. Prasher; P. Constabel; S. Singh; D. Bhatia; J. Samuel; J. Singh; Amandeep Department of Civil Engineering, University of Victoria; Department of Mechanical Engineering, University of Victoria; Department of Bioresource Engineering, McGill University; Biology Department, University of Victoria; Yash Industries, Ludhiana
Comparative Analysis of Erosion, Sea level Rise and Subsidence of the Nelson River Estuary Manitoba, Canada and the Ganges River Estuary West Bengal, India	A. Mukhopadhyay; N. Pramanik; D. Mitra; S. Hazra School of Oceanographic Studies, Jadavpur University; Indian Institute of Remote Sensing, Dehradun
Risk Assessment of Agricultural Amendments	S. Sharma; R. Sharma; G. Anand; U. Singh; V.S. Bisaria Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi
Discussion/QA	

1:15 - 2:15 pm

LUNCH BREAK

PARALLEL SESSION 2 A: THEME 1 B- Community Well-Being**The Hall, Time: 2:15 PM- 4:15 PM**

Paper	Speaker & Co-Authors
Co-Chairs: Prof. S. B. Dash, Center for Marketing in Emerging Economies, Indian Institute of Management Lucknow Prof. John Reid, Department of History & Atlantic Canada Studies Program, Saint Mary's University	
Are the Millennial Generation's Travel Patterns Sustainable? Evidence from Canada	A. Agarwal School of Urban and Regional Planning, Queen's University, Kingston, ON, Canada
Discontents of Sustainable Mobility in Indian Cities	M. Badami; G.Gopakumar McGill University, Montreal, QC, Canada
Co-Design: A Process of Community Participation in Post-disaster Reconstruction	K.N. Dev; A.K. Das Department of Design, Indian Institute of Technology, Guwahati, Assam
Field Learning on Design for Sustainability in Design Education - Shared Vision and Global Partnerships	R.M. Punekar; S. Banerjee; P. Upadhyay Department of Design, Indian Institute of Technology, Guwahati, Assam
Discussion/QA	

PARALLEL SESSION 2 B: THEME 2A - Reducing Inequalities**The Seminar Hall 2, Time: 2:15 PM - 4:15 PM**

Paper	Speaker & Co-Authors
Co-Chairs: Dr. Chandra Mohan, International Comparative Literature Association Prof. Sheila Embleton, Department of Languages, Literature and Linguistics, York University	
Hijras of Mumbai and the Recent Judgment of India Supreme Court on Transgenders	M. Boisvert Université du Québec à Montréal, QC, Canada

Abhorred, Disdained and Secluded - Locating Women belonging to the Denotified Tribes of India	S. Debnath; K. Khetani Tamil Nadu National Law School, TamilNadu
Women, Multiculturalism and Minority Rights: A Snapshot of Canada and India	V. Narain Faculty of Law, McGill University, Montreal, QC, Canada
Need for Redistribution of Agriculture Land in India	I. Husain National Law University, Assam
Challenges towards Empowerment: Reconstructing Narratives of Homeless Individuals with Severe Mental Illness in India	P. Bhattacharya ; R.P. Kumar Department of Humanities and Social Sciences, Indian Institute of Technology, Kanpur
Income Inequality and Human Well-being: Why do we Need to Shift our Focus?	VK.Shrotriya; S.V. P. Singh Department of Commerce, Delhi School of Economics, University of Delhi, Delhi
Discussion/QA	

PARALLEL SESSION 2 C: THEME 4 B- Sustainable Energy Development

The Seminar Hall 3, Time: 2:15 PM - 4:15 PM

Paper	Speaker & Co-Authors
Co-Chairs: Prof. Manzoor Shah, Department of Botany, University of Kashmir Prof. Daniel F. Coleman, Faculty of Business Administration, University of New Brunswick, Fredericton	
Development of Green Catalyst for Biodiesel Production from Soybean Oil	J. Gupta, M. Agarwal, A.K. Dalai and S.P. Chaurasia; Department of Chemical Engineering, MNIT, Jaipur; Department of Chemical and Biological Engineering, University of Saskatchewan, Saskatoon, SK, Canada

Valorization of Household Food Wastes through Supercritical Water Gasification for Hydrogen-rich Syngas Production	S. Nanda ; A.K. Dalai; F. Berruti; K.K. Pant; J.A. Kozinski Department of Chemical and Biochemical Engineering, University of Western Ontario, London, ON; Department of Chemical and Biological Engineering, University of Saskatchewan, Saskatoon, SK; Department of Chemical Engineering, Indian Institute of Technology, Delhi; New Model in Technology & Engineering (NMiTE), Hereford, Herefordshire, UK
Clean Energy for Transportation: Next-Generation Fuel Cells	D. Khattar ; F. Sharif; E. Roberts; K. Karan Malaviya National Institute of Technology, Jaipur; Chemical and Petroleum Engineering, University of Calgary, Calgary, AB
Crossflow Turbine Design for Remote Power Systems	R. C. Adhikari ; D.H. Wood Department of Mechanical and Manufacturing Engineering, University of Calgary, Calgary, AB, Canada
Enhancement of the Chemical Properties of Bio-oil as a Sustainable Energy Replacement for Petroleum Based Fuels	P. B. Saynik ; V.S. Moholkar Centre for Energy and Department of Chemical Engineering, Indian Institute of Technology, Guwahati
Bifunctional Catalyst for Efficient and Economical Conversion of Biomass-derived CO ₂ Containing Syngas into Synthetic Diesel	S. Bahri ; S. Upadhyayula Department of Chemical Engineering, Indian Institute of Technology, Delhi
Discussion/QA	

PARALLEL SESSION 2 D: THEME 5 B- Environmental Sustainability

The Seminar Hall 1, Time: 2:15 PM - 4:15 PM

Paper	Speaker & Co-Authors
Co-Chairs: Prof. S.M. Joshi, Department of Economics, M.S. University of Baroda Prof. Julie McMullin, Department of Sociology, Western University	
Advances in CO ₂ Capture using Solid Sorbents	N. Mahinpey Department of Chemical and Petroleum Engineering, University of Calgary, Calgary, AB, Canada
Role of Biochar Based Sustainable Green Technology in Water Treatment Systems	J. Dhiman ; S. Prasher; N.R. Sharma; R. Kanwar Department of Bioresource Engineering, McGill University, Montreal, QC, Canada

Commodification of Water: A Case Study of Khetri Copper Mining Region, Rajasthan, India	K. Sahal Department of Anthropology, University of Delhi
An Onsite Demonstration Study on Floating Filters for Wastewater Drains	J. Singh; S. Prasher; N.R. Sharma; D. Bhatia; S. Singh; D. Singh; R. Rudra; R. Kanwar School of Bioengineering and Biosciences, Lovely Professional University; Department of Bioresource Engineering, McGill University, Montreal, QC; School of Engineering, University of Guelph, Guelph, ON
Biodegradable Plastics for Commodity, Engineering and Biomedical Applications	V. Katiyar Department of Chemical Engineering, Indian Institute of Technology, Guwahati
Discussion/QA	

4:15-4:30 PM Concluding Day 1

4:30 PM TEA

Saturday June 9, 2018- Second Day of the Conference

11:15 – 11:30 AM TEA

PARALLEL SESSION 3 A: Theme 3 B Improving Health

The Hall, Time: 11:30 AM - 1:30 PM

Paper	Speaker & Co-Authors
Co-Chairs: Dr. A. B. Patil, University of Agricultural Sciences Bangalore Dr. Balakrishnan Prithviraj, Department of Environmental Sciences, Dalhousie University	
Design of Novel Dietary and Therapeutic Interventions to Power the Aging Muscle in Sarcopenia, a Morbid Geriatric Disease	V. Panda ; A. Hare Department of Pharmacology, KMK College of Pharmacy, Mumbai University
The Health and Wellbeing of Inuit Communities in Canada	C.A. Aimol Department of Political Science, University of Delhi
Mental Health and Wellbeing: Informing the SDGs with Culture and Context: The Experience of a Maternal Mental Health Research Collaborative in Rural Rajasthan	R. Johri ; K. Killingsworth; K.K. Shergill; E. Christenson; S. Premji; A.S. Brar School of Human Studies, Ambedkar University Delhi; School of Public Health, University of Alberta; Mata Jai Kaur Maternal and Child Health Centre; Faculty of Nursing, University of Calgary; Institute for Social and Cultural Anthropology; University of Oxford
A Pragmatic Plasmodium falciparum Glutamate Dehydrogenase based Sensor for Malaria Diagnosis	N.K. Singh; L. Ngashangva ; P. Goswami Department of Bioscience and Bioengineering, Indian Institute of Technology, Guwahati
Leaving no One Behind: Healthy Aging, Social Inclusion, and the SDGs	S. Johnson University of Regina, Regina, SK, Canada
Development of an Affordable Point-of-Use Disinfection System for Rural India	S. M. Maliyekkal ; U. Kannan Department of Civil Engineering, Indian Institute of Technology, Tirupati
Discussion/QA	

PARALLEL SESSION 3 B: Theme 2 B- Reducing Inequalities

The Seminar Hall 2, Time: 11:30 AM - 1:30 PM

Paper	Speaker & Co-Authors
Co-Chairs: Prof. G.Gopa Kumar, Central University Of Kerala Dr. Sunera Thobani , Department of Asian Studies, Institute for Gender, Race Sexuality and Social Justice, University of British Columbia	
Integrating Elderly into Community: A Socio-Economic Model	A.C. Choolayil; L. Mohan Department of Social Work, Central University of Kerala Kasargod, Kerala
Impact of 2030 Agenda for Sustainable Development on Population Ageing Research in India with Learnings from Canada	H. Antal; S. Bhutani Department of Geography, Panjab University, Chandigarh
Sustainable Community well-being: A Conceptual Framework Community Well-being for India	D. Dash; A. Dutta Indian Institute of Technology Kharagpur; Reliability Engineer, BHP Australia
Frame Work For Co-operation Between India And Canada on Countering Terrorism and Violent Extremism: A Study of Cyber Dome and Coastal Security alert Committees in Kerala.	B. Sajikumar Department of Public Administration and Policy Studies, Central University of Kerala
Discussion/QA	

PARALLEL SESSION 3 C: Workshop on “Why Sex and Gender Matter in Social Science and Health Research and Policy: It Matters for Good Science”

The Seminar Hall 3, Time: 11:30 AM - 1:30 PM

Paper	Speaker & Co-Authors
Co-Chairs: Prof. Suchorita Chattopadhyay, Department of Comparative Literature, Jadavpur University Prof. Bilkis Vissandjée, Faculty of Nursing, University of Montreal	
Areas of Interest by the Participants	
Canadian Perspective on Good Science: Why Sex and Gender	B. Vissandjée

Matters	Université de Montréal, Montréal, Québec, Canada
Why Sex and Gender Matters: The Case of TB and Gender-based Violence	A. Pitre Research Scholar, Tata Institute of Social Sciences, Mumbai, Maharashtra
Why Sex and Gender Matters: The Case of Diabetes Type 2	A.C. Thippaiah University of Hyderabad, Hyderabad, Telangana
Interactive Discussion: Why Sex and Gender Matters in Reference to Participants' Areas of Interest	
Why Sex and Gender Matters: Lessons Learnt	

PARALLEL SESSION 3 D: Smart Cities, Technology and Communities

The Seminar Hall 1, Time: 11:30 AM - 1:30 PM

Paper	Speaker & Co-Authors
Co-Chairs: Dr. A. K. Mishra, Indian Institute of Technology Madras Dr. Derek Johnson, Faculty of Arts, University of Manitoba	
Does India Needs Smart City! Not Eco City? Hypothetical Analysis of Ecological Modernisation of SmaEco City (Smart + Ecological) Model for Sustainable Urban Development	A.M. Dhere Department of Science, S.N.D.T. Women's University, Mumbai
Access to water across smart cities in India: Issues and Challenges	C. S. Bahinipati; A.K. Katuri; U. Rajasekar Department of Humanities and Social Sciences, Indian Institute of Technology Tirupati; Independent Researcher, New Delhi
E- Waste Management for Environment Sustainability Strengthening Communication Strategies for Community Participation	S. Nagpal AJK Mass Communication Research Centre, Jamia Millia Islamia; New Delhi
Communication Technologies Used by Police Department for Community Participation and Relation	M.S. Sapna Department of Communication and Journalism University of Mysore, Mysuru
A New Framework to Secure Electronic Patient Record for E- Healthcare Applications in India	S. A. Parah; J.A. Sheikh; G.M. Bhat Department of Electronics and Instrumentation Technology, University of Kashmir; Department of

	Electronics Engineering, Institute of Technology, Zakoora, Jammu & Kashmir
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Discussion/QA

1:30-2:30 PM LUNCH BREAK

CONCLUDING SESSION

The Hall, Time: 2:30 PM – 4.00 PM

Conference Summary and Future Steps by the **Executive Council**, Shastri Indo- Canadian Institute

Vote of Thanks by **Anju Taneja**, Finance Officer Shastri Indo Canadian Institute

4.00 PM TEA

Book of Abstract