

**Joyashree Roy**

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*(permanent address)*

*Asian Institute of Technology, Energy Academic Programme,  
Dept. of Energy, Environment and Climate Change, School of Environment, Resource and  
Development, 58 M 009, KM 42, Paholyothin Highway, PO Box: 4, Klong Luang,  
Pathum Thani: 12120. Thailand. (current temporary address)*

## **EXPERTISE**

### **Economics, Sustainable Development, Sustainability Transition**

Economics (Micro Economics, Quantitative Techniques in Economics); Resource, Energy and Environmental Economics; Natural Resource Accounting; Economics of Climate Change; Research and Analysis, Training, Capacity Building.

### **Organisations and Management**

New Teaching and Research Programme: Planning, Development and Implementation, Proposal writing for Fund raising, coordination, Project and Research Management.

### **International Professional Experience**

US, Europe, Asia, Africa, South Asia, Asia-Pacific: multiple times travelled in multiple countries with variety of assignments. Comfortably work in multicultural ambience.

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**DATE OF BIRTH AND GENDER:** OCTOBER 1, 1957. FEMALE

## **PROFESSIONAL EXPERIENCE**

### **Asian Institute of Technology, Thailand**

*2018 August-continuing (short term): Bangabandhu Chair Professor*

Responsible for teaching courses for Doctoral and Masters students and provide Research Guidance and help in Sustainable energy planning and modelling for Bangladesh.

### **Jadavpur University, Kolkata, India**

*2002-2018 July (on lien) : Professor of Economics*

*2014-2015: ICSSR National Fellow –affiliated to Jadavpur University*

*2006- 08: Head of the Department of Economics*

*1991-2002: Senior Lecturer and Reader in Economics*

Responsible for teaching courses for Doctoral, Masters and Undergraduate students and provide Research Guidance.

**2001-Present: Coordinator, Global Change Programme,** Initiated and Coordinating the Climate Change and HumanDimensions Research across faculties within the university. Responsibilities are:

- Managing the research programme to provide knowledge support to (e.g.) Government of India, IPCC.
- Conducting training workshops for policy makers, company executives, climate smart entrepreneurs, climate champions, NGOs
- Developing research collaborations across countries on a single theme.
- Facilitating and organizing international research networks
- Fund raising from multiple sources to facilitate research activities (Government of India: various ministries, APN, SANDEE, ADB, Climate Strategies-UK)
- Organising knowledge dissemination workshop

**2003-Present: SYLFF (RioyichiSasakawa Young Leaders Fellowship Fund) Project Director of the Research and Leadership Development Programme.** Initiallywrotetheproposal in collaboration with faculty members within JadavpurUniversityon “Tradition, Social Change and Sustainable Development : A Holistic Approach” to competitively win an endowment of 1 million USD for the university from Nippon Foundation, Japan. Responsibilities are:

- Overall administration of the project including directing academic, administrative and financial management
- Networking with the 68 institutions worldwide towards enhancement of exchange among students, faculties and administrators.
- Coordination among multiple disciplines within social sciences, multiple stakeholders: funding agency in Japan, university administration, students, research advisors and Mentors.
- Organisation of research progress report workshops/regional researchers’ forum etc.

### **Muralidhar Girls’ College, Kolkata, India.**

1982-1991: Lecturer, Teaching at Undergraduate level

### **EDUCATION**

- Ph.D in Economics, Jadavpur University, Kolkata, India, 1991.

Concentration: Econometric Modelling of Producer BehaviourforIndian Industries to understand Demand for Energy.

- Master of Arts. (Economics), North Eastern Hill University, Shillong,India, 1978.
- College (Bachelor of Arts (Economics Honours) and PUC)) : Lady Keane Girls College, Shillong.
- School (high school) :Government Girls’ High School Shillong.

1978-1982: For short period after masters degree completion worked for a research project in NEHU, Shillong. In 1979 Migrated to Kolkata and took some time to get settled and search for job and research opportunity in a new city. So contacts started building up from the end of 1979 and started research work from 1980.

### **OTHER TRAINING**

- One week Summer School on Economic Theory, Presidency College, Calcutta, India, 1984.
- Auditing of Courses on Environmental Economics, Resource Economics, Applied Economics in the Department of Agriculture and Resource Economics, (ARE) and Energy Resource Group (ERG) Berkeley, USA, 1997-98 as Ford Foundation Post Doctoral Fellow.
- Six weeks' faculty improvement programme in Environmental Economics under World Bank capacity building programme in Environmental economics at Institute of Economic Growth, Delhi, India, 1998.
- Three weeks' training programme for Computable General equilibrium Model organized by SANDEE, south Asian Network for Development and Environmental Economics, Bangkok. 2002.

#### AWARDS AND HONOURS

- **2018 February** .TEDxJadavpur University Talk, <https://www.youtube.com/watch?v=9q-2MEAairE>
- **2016 June** .TEDxGhent Talk : <http://www.tedxghent.be/home/events/tedxghent-6-bits-love/> (<https://www.youtube.com/watch?v=EQ56sFXpHb8>)
- **2014: Indo-US S&T Forum, Joint Awardee for business plan on "Commercializing a Scalable Low -cost Arsenic remediation technology for societal impact."**
- **2014: Senior Fellow, Breakthrough Institute, USA**
- **2013: National Fellowship of the Council in the Social Sciences for pre-eminent scholarship offered by Indian Council of Social Sciences Research (ICSSR), Ministry of Human Resource Development, Government of India.**
- **2012: Creativity Prize :A member of the 'Team led by Prof. Ashok Gadgil'- winner of the 5<sup>th</sup> Prince Sultan Bin Abdulaziz International Prize for Water .**  
[http://psipw.org/index.php?option=com\\_content&view=article&id=320&Itemid=284](http://psipw.org/index.php?option=com_content&view=article&id=320&Itemid=284)  
[http://psipw.org/index.php?option=com\\_content&view=article&id=319:prize-council-announces-winners-for-the-5th-award&catid=2:news-a-events&Itemid=26,](http://psipw.org/index.php?option=com_content&view=article&id=319:prize-council-announces-winners-for-the-5th-award&catid=2:news-a-events&Itemid=26)  
[https://en.wikipedia.org/wiki/Prince\\_Sultan\\_bin\\_Abdulaziz\\_International\\_Prize\\_for\\_Water](https://en.wikipedia.org/wiki/Prince_Sultan_bin_Abdulaziz_International_Prize_for_Water)
- **2011: Best Citizen's Award 2011, Friendship Society of India**
- **2011:SawamsiddhaAward** of Rotary Club of Calcutta Metro City 2011.
- **2008:Felicitated and awarded a certificate by Prime Minister of India for valuable contribution to the IPCC process (AR4).**
- **2008:** Jadavpur University Teachers Association felicitated for *noteworthy achievements in the field of her research.* (2008).
- **2007: Nobel Peace Prize: Among the network of scientists who shared in 2007 Nobel Peace Prize awarded to IPCC.** Served as Coordinating Lead author of industry chapter of WGIII of AR4 and AR5. IPCC shares the Nobel Peace Prize of 2007.
- **1998: NIPFP-Ford Foundation Follow up Post-Doctoral Research grant (in Economics) in 1998-99.**

- **1997: Ford Foundation Post Doctoral Fellowship Award in Environmental Economics.** Spent the year at Lawrence Berkeley National Library, Environmental Energy Technology Division, and MS 90-4000, One Cyclotron Road, Berkeley, CA 94720, USA (1997-98).

## ADVISORY ACTIVITY

- Member of *Standing Committee on Industrial Statistics (SCIS)*, National Statistical Commission, Government of India , Ministry of Statistics and Programme Implementation.
- Chairperson, Environmental Statistics for Indian Industries, CSO, Government of India, Ministry of Statistics and Programme Implementation.
- TIFAC. National Committee, Government of India.
- Governing Body Member –Vice President -SaciWATERS, [www.saciwaters.org](http://www.saciwaters.org)
- Member of the Statutory Body (terms completed) :SEAC- *State Level Environment Assessment Committee* of the Govt. of West Bengal, *Central Electricity Regulatory Commission*, New Delhi, India, Climate Change consultative group for equity at MOEF, GoI., Member Executive Council (Chancellor’s Nominee) : Vidyasagar University
- UGC:
  - Expert Committee for Minor and Major Research projects in Economics
  - Expert Committee Member of SAP/DRS/CAS in Economics
- National Institute of Technology: Governing Body member of VNIT
- Member of doctoral committees/faculty selection committees in universities (India and overseas), IITs, IISC, ICSSR centre, State and Central Universities .
- Honorary Fellow:
  - Senior Fellow with the Breakthrough Institute, USA
- Steering/ Advisory Committee Member:
  - LOICZ, (*Land Ocean Interaction Coastal Zone*) *Global Network*. (completed the term)
  - SAARC *Climate Change Committee* (past)
  - UCCRN (*Urban Climate Change Research Network*), coordinated by Columbia University, USA (Past)
  - DIL, *Development Impact Laboratory*, UCB and LBNL, USA
  - LIGTT, UCB and LBNL, USA
  - *Climate Strategies*, UK (Past)
  - *Environmental Progress* (Past)
- Editorial Board Member of Journals
  - Current Opinion in Environmental Sustainability
  - Environmental Development
  - Energy Economics (completed the term)
  - The Journal of Industrial Statistics

## LIST OF ALL PUBLICATIONS

**h-index:**

14 (SCOPUS); as on August 2018 (The *h* Index considers Scopus articles published after 1995.)

25 (Google Scholar, all) as on May 2018

**i10-Index:** 46

**Citations :** 6561 (Google scholar)

### **Books/Articles/Reports:**

#### **A. Books authored (1)**

**1992**

“Demand for Energy in Indian Industries (A Quantitative Approach)”, 1992, Daya Publishing House, Delhi 110 006.

#### **B. Books Coauthored (4)**

**2016**

Das, A., Joyashree Roy, S, Chakraborti (2016), Socio-Economic Analysis of Arsenic Contamination of Groundwater in West Bengal, DOI 10.1007/978-981-10-0682-1, Print ISBN 978-981-10-0680-7, Online ISBN 978-981-10-0682-1, Series ISSN 2198-0012, Springer Singapore.

**2015**

Das, A., Joyashree Roy (2015) , “Jole Arsenic: PrasangaPaschimbanga”, Mitram, Kolkata, ISBN: 93-80036-68-x.[Arsenic in Water: Context West Bengal]

**2014**

Pal, B.D., V.P. Ojha., S, Pohit., **J.Roy (2014)** , GHG Emissions and Economic Growth-A Computable General Equilibrium Model Based Analysis for India, Springer. New Delhi. ISBN 978-81-322-1942-2.

**2009**

Jana S, **J Roy**, S. Datta. (2009), Industrial Pollution and Abatement, Economic Analysis of Paper Units of West Bengal, South Asian Publishers Pvt. Ltd, New Delhi.

#### **C. Contribution in International High Impact Assessment Reports (10)**

**2019-2022**

**IPCC Sixth Assessment Report (AR6, Chapter 5 coordinating Lead Author)**

**2017 -2018**

- a. **IPCC 1.5 Special Report (Coordinating Lead Author)-In progress**
- b. **HIMAP Report (Coordinating Lead Author)- In press**

**2014**

**IPCC Report (Coordinating Lead Author)** -Fishedick, M., **J. Roy**, A. Abdel-Aziz, A. Acquaye, J.M. Allwood, J.-P. Ceron, Y. Geng, H. Kheshgi, A. Lanza, D. Perczyk, L. Price, E. Santalla, C. Sheinbaum, and K. Tanaka (2014). Industry. In: *Climate*

*Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.*

**IPCC Report SPM- Drafting Author:** IPCC 2014: Summary for Policy makers. In Climate Change Mitigation. Contribution of Working Group III to the Fifth Assessment Report of the IPCC

**2012**

- i. **IPCC Report (contributing author):** IPCC 2012, Renewable Energy sources and Climate Change Mitigation, Special Report of the IPCC, Cambridge University Press. US.
- ii. **UNIDO Report:** Industrial Development Report 2011: (coauthor)  
[http://www.unido.org/fileadmin/user\\_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%20200912.pdf](http://www.unido.org/fileadmin/user_media/Publications/IDR/2011/UNIDO%20IDR%20reprint%20for%20web%20200912.pdf)
- iii. **GEA Report** (coordinating lead author) : Chapter 21 –Lifestyles and Human wellbeing, convening lead author. 2012. Global Energy Assessment : Towards a Sustainable Future –Edited: *Johansson T et al (2012). CUP*

**2007**

**IPCC(Coordinating Lead Author)** :IPCC 2007: Climate Change Mitigation, Contribution of Working Group III to the Fourth Assessment Report of the IPCC. Bernstein Lenny and J Roy Coordinating Lead authors of Chapter 7: “Industry”, IPCC Fourth Assessment Report, Working Group III. Cambridge University Press, UK and NY.

**IPCC Report SPM- Drafting Author:** IPCC 2007: Summary for Policy makers. In Climate Change Mitigation. Contribution of Working Group III to the Fourth Assessment Report of the IPCC (B. Metz, O.R. Davidson, P.R Bosch, R Dave, L.A Meyers (eds), Cambridge University Press, UK and NY.

#### **D. Books Edited/co-edited**

**2006**

*“Development Challenges: Some Analytical Issues”*, Allied Publishers Ltd. 2006, Kolkata: 700 032 (co-editor, Ajitava Raychaudhuri). 2006

**2000**

*“Themes on Development Economics”*, Allied Publishers Ltd. 2000, Allied Publishers Ltd., Calcutta 700 032(co- editor, ManasRanjan Gupta).

**1999**

"Environmental Economics in India- Concepts and Problems", 1999, Allied Publishers Ltd., Calcutta 700 032. (co-editor, Gautam Gupta).

E. **Journal guest editor :**

- i) Guest Editor of :*Special Issue on Energy Systems of Current Opinion in Environmental Sustainability* 2013, 5.(Co editors : S. K. Ribeiro,Diana Urge-Vorsatz,Maria Josefina Figueroa).

F. **Articles in Books and Journals:**

**Papers in Peer Reviewed Journals/Books of International Repute: (105)**

**2018 (4)**

- Debrupa Chakraborty and **Joyashree Roy** (2018), Implementing Environmental Management Accounting (EMA): Case Study of a Paperboard & Paper Production Unit in India, IJBIT/V11/02/228/RP.
- Felix Creutzig, **Joyashree Roy**, William F. Lamb, Inês M.L. Azevedo, Wändi Bruine de Bruin, Holger Dalkmann, Oreane Y. Edelenbosch, Frank W. Geels, Arnulf Grübler, Cameron Hepburn, Edgar Hertwich, Radhika Khosla, Linus Mattauch, Jan C. Minx, Anjali Ramakrishnan, Narasimha D. Rao, Julia Steinberger, Massimo Tavoni, Diana Ürge-Vorsatz, Elke U. Weber (2018), Towards demand-side solutions for mitigating climate change, *Nature Climate Change*, April, Vol 8, 268-271.
- Safari, A., Das, N., Jafari, S., Langhelle, O., **Roy, J.**, &Assadi, M. (2018). Role of Gas-Fuelled Solutions in Support of Future Sustainable Energy World: Part II: Case Studies. In *Sustainable Energy Technology and Policies: A Transformational Journey*, Vol 2 (pp. [https://doi.org/10.1007/978-981-10-8393-8\\_2](https://doi.org/10.1007/978-981-10-8393-8_2), Print ISBN: 978-981-10-8392-1, Electronic ISBN: 978-981-10-8393-8). Singapore: Springer.
- **Roy, Joyashree**, D. Chakravarty, S.Dasgupta, D Chakraborty, S. Pal, D.Ghosh. (2018) Where is the hope? Blending modern urban lifestyle with cultural practices in India, *Current Opinion in Environmental Sustainability* 2018, 31:96–103,<https://doi.org/10.1016/j.cosust.2018.01.010>.

**2017(7)**

- Das, N., &**Roy, J.** (2017). Making Indian Power Sector Low Carbon: Opportunities and Policy Challenges. In S. D. Anirudh Gautam, *Sustainable Energy and Transportation* (pp. 163-183, [https://doi.org/10.1007/978-981-10-7509-4\\_10](https://doi.org/10.1007/978-981-10-7509-4_10), Print ISBN: 978-981-10-7508-7, Online ISBN: 978-981-10-7509-4). Singapore: Springer.
- Jackson R B, CLeQue´re´, R M Andrew, J G Canadell,G P Peters, **J Roy** and L Wu (2017), Warning signs for stabilizing global CO2 emissions, *Environ. Res. Lett.* 12 (2017) 110202 ,<https://doi.org/10.1088/1748-9326/aa9662>.

- **Roy Joyashree**, Shyamasree Dasgupta, Duke Ghosh, Debalina Chakravarty, Nandini Das, Debrupa Chakraborty and Sudipta De (2017), Governing National Actions for Global Climate Stabilisation : Examples from India, *Chapter 9 in, Climate Governance In South Asia*, (eds) Barua Anamika, Vishal Narain, Sumit Vij, CRC Press-Taylor and Francis Group. (in press).
- Caine Mark, J Lloyd, Max Luke, Lisa Margonelli, Todd Moss, Ted Nordhaus, Roger Pielke Jr., Michael Roman, **J Roy**, Daniel Sarewitz, Michael Shellenberger, Kartikeya Singh, Alex Trembath (2017), Our High Energy Planet, in, *The Rightful Place of Science: Climate Pragmatism* (eds.) Lloyd J, Sarewitz D, T Nordhaus, A Trembath, Consortium for Science Policy & Outcome at Arizona State University, Tempe, AZ and Washington DC. ISBN 9780692897959.
- Raven Rob, Bipashyee Ghosh, Anna Wieczorek, Andy Stirling, Duke Ghosh, Suyash Jolly, Eakanut Karjantimapron, Sidtinat Prabudhanitisarn, **Joyashree Roy**, Somporn Sangawongse, Frans Sengers, (2017), Unpacking sustainabilities in diverse transition contexts: Solar photovoltaic and urban mobility experiments in India and Thailand, *Sustainability Science*, (2017) 12:579–596. DOI 10.1007/s11625-017-0438-0 <https://link.springer.com/article/10.1007/s11625-017-0438-0>.
- Delaire Caroline, Abhijit Das, Susan Amrose, Ashok Gadgil, **Joyashree Roy**, Isha Ray (2017), Determinants of the use of alternatives to arsenic-contaminated shallow groundwater: an exploratory study in rural West Bengal, India, *Journal of Water and Health*, Accepted on 04 Apr 2017.
- **Roy Joyashree**, Shyamasree Dasgupta, Debrupa Chakraborty (2017), in Deep Decarbonisation in Industries: What does it mean for India? Ed, Lechtenbohrer S and Katherine Knopp, “Realizing long-term transitions towards low carbon societies”. Wuppertal Spezial, 53, Wuppertal Institute, pp 88-91.

## 2016 (7)

- Dasgupta Shyamasree and **Joyashree Roy** (2016), Analysing energy intensity trends and decoupling of growth from energy use in Indian manufacturing industries during 1973-74 to 2011-12, *Energy Efficiency*, pp 1-19, doi:10.1007/s12053-016-9497-9. ISSN: 1570-646X (Print) 1570-6478 (Online)
- Colenbrander Sarah, Andy Gouldson, **Joyashree Roy**, Niall Kerr, Sayantan Sarkar, Stephen Hall, Andrew Sudmant, Amrita Ghatak, Debalina Chakravarty, Diya Ganguly and Faye McAnulla (2016). Can low-carbon urban development be pro-poor? The case of Kolkata, India, *Environment and Urbanization*, pp 1–20. DOI: 10.1177/0956247816677775. ISSN · 0956-2478 (print) 1746-0301 (web)
- **Roy Joyashree**, Diya Ganguly, Debalina Chakravarty (2016), Low Carbon Green Growth Strategies and Sustainable Development for Mega cities : A Case Study of Kolkata , *Amity Journal of Economics* 1 (1), pp 73-86. [www.amity.edu/admaa/ajeco](http://www.amity.edu/admaa/ajeco)
- Chakravarty D, **Roy J** (2016), The Global South: New Estimates and Insights from Urban India. In the edited volume of “Rethinking Climate and Energy Policies: New



Perspectives on the Rebound Phenomenon", edited by Tilman Santarius, Hans Jakob Walnum, Carlo Aall. Springer International Publishing, Switzerland. 2016. ISBN 978-3-319-38805-2, ISBN 978-3-319-38807-6 (eBook), DOI 10.1007/978-3-319-38807-6.

- Duke Ghosh, Frans Sengers, Anna J. Wiczorek, Bipashyee Ghosh, **Joyashree Roy**, and Rob Raven (2016), Urban Mobility Experiments in India and Thailand, in The Experimental City ed. by James Evans, Andrew Karvonen, Rob Raven, Routledge. <https://www.routledge.com/The-Experimental-City/Evans-Karvonen-Raven/p/book/9781138856202>
- **Roy, J**, S. Datta, P. Kapuria, I. Guha, R. Banerji, S. Rao, M. G. Miah, M. R. Islam, S. Chen, H. Li, T. Xia, J. Ratnasir, P. B. T. P. Kumara, C. S. Lokuhetti, & S. P. Vidanage (2016), Coastal Ecosystem and Changing Economic Activities and Vulnerabilities along Chinese and South Asian Coasts, APN Science Bulletin, Issue 6, April, pp 21-26.
- **Roy Joyashree**, K Mukhopadhyay, D. Ghosh, A Ghosh (2016), Exacerbating Health Risks in India due to Climate Change: Rethinking Approach to Health Service Provision, In book: Handbook of Research on Climate Change Impact on Health and Environmental Sustainability, Edition: first, Chapter: 1, Publisher: IGI Global, Editor: Soumyananda Dinda, pp.1-25, DOI: 10.4018/978-1-4666-8814-8.ch001

## 2015 (5)

- Chakraborty, D; and **Joyashree Roy** (2015), Ecological Footprint of Paperboard and Paper production Unit in India. *Environment Development and Sustainability* 17(4):909-921. ISSN: 1387-585X (Print)
- Dasgupta S; **Roy Joyashree** (2015), Understanding technological progress and input price as drivers of energy demand in manufacturing industries in India, *Energy Policy* 83, 1-13. ISSN: 0301-4215
- Dasgupta S; **Roy Joyashree**, (2015), Designing PAT as a Climate Policy in India: Issues Learnt from EU-ETS, In book: Nature, Economy and Society: Understanding the Linkages, Chapter: 16, Publisher: Springer, Editors: Nilanjan Ghosh, Pranab Mukhopadhyay, Amita Shah, Manoj Panda, pp.315-328, DOI: 10.1007/978-81-322-2404-4 .
- Christoph von Stechow, David McCollum, Keywan Riahi, Jan C. Minx, Elmar Kriegler, Detlef P. van Vuuren, Jessica Jewell, Carmenza Robledo-Abad, Edgar Hertwich, Massimo Tavoni, Sevastianos Mirasgedis, Oliver Lah, **Joyashree Roy**, Yacob Mulugetta, Navroz K. Dubash, Johannes Bollen, Diana U' rge-Vorsatz, 19 and Ottmar Edenhofer (2015), Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis, *Annual Review of Environment and Resources* 40(1) November
- **Roy Joyashree** (2015), Climate policy rather than politics should be the result, commentary, *Environmental Development*, February 2015. Accepted manuscript available online: 24-FEB-2015, DOI information: 10.1016/j.envdev.2015.02.003

## 2014 (5)

- **Roy, Joyashree**; Rupsa Bhowmick; Manisha Dolui (2014), Actions for Sustainable Development: Evidence Based Assessment for the State of West Bengal, *Arthaniti* 13 (1-2)/2014.

- **Roy Joyashree , S Dasgupta(2014)**, *Indian Industries doing their bit to go green*  
<http://indiaclimatedialogue.net/2014/08/29/indianindustriesbitgogreen/>
- Jana Sebak, **Joyashree Roy**, BuddhiMarambe, JeevikaWeerahewa, GaminiPushpakumara, Pradeepa Silva, MD. Giashuddin Miah, RanjithPunyawardena ,SarathPremalal (2014) , Home Gardens in the PaschimMedinipur District of West Bengal in India: A Land Use System with Multiple Benefits. *Int. J. of Environment and Sustainable Development*,14(2):191-206 DOI: 10.1504/IJESD.2015.0686066
- **Roy, Joyashree**; RupsaBhowmick; Manisha Dolui (2014), Sustainable Development in India: Updates on Possible Role of States.  
<http://www.indiastat.com/article/70/Joyashree/article70.html>
- Susan E. Amrose, Siva R.S. Bandaru, Caroline Delaire, Case M. van Genuchten, Amit Dutta, AnupamDebSarkar, Christopher Orr, **Joyashree Roy**, Abhijit Das, Ashok J. Gadgil (2014), Electro-chemical arsenic remediation: Field trials in West Bengal, *Science of the Total Environment* 488–489 (2014) 539–546.

## 2013(9)

- Das. A, **Joyashree Roy**, 2013. Socio-Economic Fallout of Arsenicosis in West Bengal: A Case Study in Murshidabad District . <http://isas.org.in/jisas/jsp/online/latestissue.jsp>. or <http://isas.org.in/jisas/jsp/volume/vol67/issue2/08%20-%20Joyashree%20Roy.pdf>  
*Journal of the Indian Society of Agricultural Statistics*, 67(2). pp 273-285.
- Roy. Joyashree . 2013. Environmental Development ,ArthaBeekshanvol 22.No 1, June.
- Das., S, S.S. Das, P. Ghosh, S. Pal, A. Dixit, **J Roy**. 2013. Fast Food Choice: What Matters in Indian Megacity, Kolkata. ArthaBeekshanvol22.No 1, June.
- Chakraborty D, **Roy J**. 2013. Corporate Carbon Footprint Accounting: Estimating CarbonFootprint of an Indian Paperboard and Paper Production Unit. *International Journal of Business Insights and Transformation*, 6(1):18-26
- **Roy., Joyashree**, D. Ghosh, A. Ghosh & S. Dasgupta. Fiscal Instruments: Crucial Role in Financing Low Carbon Transition in Energy System. *Current Opinion in Environmental Sustainability*. 10.1016/j.cosust.2013.05.003. ISSN: 1877-3435
- Chakravarty Debalina, S. Dasgupta, **JRoy (2013)** .“Rebound effect: how much to worry?” *Current Opinion in Environmental Sustainability* 2013, 5. DOI No. 10.1016/j.cosust.2013.03.001
- Chakraborty Debrupa, **J Roy**. (2013)“Energy and Carbon Footprint: Numbers Matter in Low Energy and Low Carbon Choices”. *Current Opinion in Environmental Sustainability* 2013, 5. DOI No. 10.1016/j.cosust.2013.04.001
- **RoyJoyashree**, ShyamasreeDasgupta, Debalina Chakravarty. (2013). Energy Efficiency: Technology, Behavior and Development in Andreas Goldthau (Ed.) *The Handbook of Global Energy Policy*. 2013 (First Edition, pp. 282-302) Wiley-Blackwell (ISBN: 978-0-470-67264-8).
- **Roy Joyashree**, KapuriaPreeti, DattaSatabdi, GujaIndrila, Banerji Rajarshi, Rao Sandhya, iah, Giasuddin; Chen, Shang; Li, Jingmei ; Xia, Tao; Ratnasiri, Janaka ; P.B. Terney Pradeep Kumara; Lokuhetti, Chinthaka S.et al. (2013). Coastal Ecosystems and Changing Economic Activities: Challenges for Sustainability Transition along Chinese

and South Asian Coasts. *APN Science Bulletin* (Asia Pacific Network for Global Change Research) March 2013, no. 3.

## 2012 (8)

- C Daulagala, J Weerahewa, B Marambe, G Pushpakumara, P Silva, R Punyawardena, S Premalal, G Miah, **J Roy**, S Jana (2012), Socio - Economic Characteristics of Farmers Influencing Adaptation to Climate Change: Empirical Results from Selected Homegardens in South Asia with Emphasis on Commercial Orientation. *Srilanka Journal of Advanced Social Studies*. Vol 2, no 2, pp.71-90.  
<http://www.sljol.info/index.php/SLJASS/issue/view/590>
- Chakraborty, D., **Roy, J.** (2012). Accounting for Corporate Water Use: Estimating Water Footprint of an Indian Paper Production Unit. *Journal of Indian Accounting Review*, 16 (2), 34 - 42.
- Halsnæs, Kirsten ,Amit Garg, John Christensen, Helene YstanesFøyn, Maryna Karavai, Emilio La Rovere&MatthewBramley&Xianli Zhu, Catherine Mitchell, **Joyashree Roy**, Kanako Tanaka, Hidefumi Katayama, Carlos Mena , ImohObioh, Igor Bashmakov, Stanford Mwakasonda, Myong-Kyoon Lee, Marlene Vinluan&Yu Joe Huang, Laura Segafredo (2012), "Climate change mitigation policy paradigms – national objectives and alignments", *Mitig Adapt Strateg Glob Change* DOI 10.1007/s11027-012-9426-y.
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<http://thesolutionsjournal.anu.edu.au/node/1156>
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## Research Guidance:

**Ph.D. Thesis - (completed) All are sole supervision unless mentioned in parenthesis.**

1. Analysing Economic Structures - With Special Reference to Indian Economy by Santadas Ghosh.
2. A Study on Infrastructure – Economy Interdependence in India: An Input-Output Approach by Ranjana Mukherjee ,nee, Chatterjee.
3. Climate Change Policies: Challenges for the Indian Industries by Sarmistha Das.
4. Understanding Changes in Energy Use and CO<sub>2</sub> Emissions from Manufacturing Industries in India by Mitali Das Gupta.
5. Energy Consumption Pattern in Bangladesh by Subrata Bain [Joint supervision with one other JU-Economics Faculty Teacher]
6. Analysis of Oil Demand in India by Indrani Ganguly

7. Pollution from Paper Industry in India by Sebak Jana [Joint supervision, with one other Engineering faculty -JU teacher]
8. Sustainability, Water Use, Economic Incentives: Case of Greater Calcutta by Monojit Ghosh.
9. Small and Medium Enterprises in India: An Analysis of Funding risks, risk mitigation and sustainable development by Duke Ghosh [joint Supervision with IIM -Joka professor]
10. Extreme Climatic Events: An Analysis of Socio Economic Vulnerability and Coping Mechanism in Selected Hotspots in India by Anupa Ghosh [joint supervision with Engineering faculty -JU teacher]
11. Accounting for Air and Water Resources: Case Study of West Bengal by ManiparnaShyam Roy.
12. Economic Analysis of Arsenic In water : Case of West Bengal by Abhijit Das
13. Performance Evaluation of the Indian Industries and Environmental Management Practices by Debrupa Chakraborty.
14. Impact of Green House Gas Emissions on Indian Economy – A SAM Based CGE Modelling Approach by Barun Deb Pal [Joint Supervision with Delhi Based Institute's faculties].
15. Lifestyle and Climate Change: An Empirical Study with Special Reference to India by Shamik Pal
16. Response of Indian Industries to Sustainability Goals: An Economic Analysis with SpecialReference to NAPCC by ShyamasreeDasgupta
17. Rebound Effect: Empirical Evidence from the Indian Economy by Debalina Chakraborty
18. Climate Change, Heat Stress and Labour Productivity-An Economic Analysis by KuheliMukhopadhyay

### **In Progress**

1. Coastal Ecosystem Services and Economic Activities: Understanding Interconnectedness Through a Case Study (SatabdiDatta)-submitted
2. Low Carbon Development: Alternative Pathways and Financing Mechanisms (Nandini Das)
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UNDERTAKEN :SPONSORED BY INTERNATIONAL AND NATIONAL AGENCIES  
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- INDGLOB project, with Centre for International Climate and Environmental Research, Oslo.
- Study of KMC installations for making them most energy, carbon and economically efficient and formulation of recommendations: Kolkata Municipal Corporation.

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- Fiscal Instruments for Low Carbon Growth in West Bengal and Odissa,India: *UKFCO/BHC*
- Climate mitigation, adaptation strategy for South Asia: *ADB*

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- Experimenting for Sustainability in India and Thailand: A Transition Perspective on Sustainable Electricity and Mobility Initiatives: *WOTRO-NWO*

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- Role of Experiments in Sustainability Transition in Asia: *APN*
- Business Model to Promote Energy Efficiency: Electrical Appliances in Domestic Sector in West Bengal: *USAID*

## 2009-2010

- Energy Scenario Assessment: *LBNL*

## 2007

- Trade and Climate Change: Case of Small Developing countries: *ICTSD*

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- CGE Modelling for Indian Economy for Climate Policy for India: *MOEF-GoI*
- Sustainability Indicators and Analysis for Indian Indian Economy: *UGC*

## 2003

- Natural Resource accounting for West Bengal: Water and air sector: *MOSPI-GoI*

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- Nodal PersonatJadavpur University of the Environmental Economics Programme under the World Bank aided India Environmental Economics Capacity Building Programme for group of institution: *MOEF,GoI*.

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- Climate Change Policies: Implications for Indian Industries: *LBNL*

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- Energy Indicator Analysis for India: *IEA*
- Socio-Economic Evaluation of the Gosaba Gasifier Plant: *WBREDA, GoWB*

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- Empirical Support for Integrated Assessment Modellers for Developing Economies: *LBNL*
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## 1992

- Cost Competitiveness of the Supplementary Power Generating System in Kolkata city: *UGC*
- Integrated Rural Energy Programme for Gorubathan Block, West Bengal: *WBREDA, GoWB*

## RESEARCH EXPERIENCE AND CURRENT RESEARCH INTEREST: (Since 1980- )

Broad area of research is Resource and Environmental Economics. Major contributions are in the field of Energy demand modeling. The field of application ranges from Non renewables to Renewable resources, urban to rural problems. The bias is more towards industry sector and econometric model building, statistical analysis especially for deriving policy implication for developing countries with special reference to the Indian economy. Data base ranging from primary data from field survey to secondary data and macro data such as input-output tables have been used at various stages of research and publications. Focus of current research is more towards Economic and Social Dimensions of Climate Change, Water resource management and multidisciplinary research on sustainable development, social embedding of new innovation.

## LANGUAGE & DEGREE OF PROFICIENCY

	<i>Speak</i>	<i>Read</i>	<i>Write</i>
English	Excellent	Excellent	Excellent
Hindi	Excellent	Excellent	Excellent
Bengali	Excellent	Excellent	Excellent
Assamese	Excellent	Excellent	Excellent

## In You Tube/podcast/news papers/online media

- [http://www.youtube.com/watch?v=YhJ\\_Q-uuK4](http://www.youtube.com/watch?v=YhJ_Q-uuK4)
  - [http://studium.webhosting.rug.nl/images/stories/archief/archief\\_geluidsbestanden/2010/voorjaar/EconomiesRoy.mp3](http://studium.webhosting.rug.nl/images/stories/archief/archief_geluidsbestanden/2010/voorjaar/EconomiesRoy.mp3)
  - <http://thebreakthrough.org/index.php/programs/energy-and-climate/understanding-energy-efficiency-rebound-interview-with-joyashree-roy/>
  - <http://vimeo.com/75470291>
  - <http://indiaclimatedialogue.net/2014/08/29/indian-industries-bit-go-green/>
  - <https://www.youtube.com/watch?v=tFZhqv3Egvo>
  - <http://social.yourstory.com/2016/03/engineers-water-filter-arsenic/>
  - [http://www.business-standard.com/article/pti-stories/engineers-develop-water-filter-to-remove-arsenic-116032500287\\_1.html](http://www.business-standard.com/article/pti-stories/engineers-develop-water-filter-to-remove-arsenic-116032500287_1.html)
  - <http://www.tedxghent.be/home/events/tedxghent-6-bits-love>
- (<https://www.youtube.com/watch?v=EQ56sFXpHb8>)
- <https://www.youtube.com/watch?v=5Bvrlv6rI9c>
  - [https://youtu.be/\\_iFgHtgzJJk](https://youtu.be/_iFgHtgzJJk)
  - <https://www.youtube.com/watch?v=ACL2uILX49A>
  - <https://www.youtube.com/watch?v=nSqr2zLKh1o&sns=em>

**OVERSEAS TRAVEL for research collaboration/Post doctoral research/short term advanced course participation/ research assignments/ conference/meeting/workshop/Key note addresses/Invited lecture/Global Report writing meetings:**

<b>Year</b>	<b>Country</b>	<b>Institute./city</b>	<b>Purpose</b>
1997	USA	Lawrence Berkeley National Laboratory, California	Post Doctoral fellow
		New York University	Paper presenter, I-O Conference
	Canada	Quebeck city	Paper presenter, IAEE Conference
1998	USA	Lawrence Berkeley National Laboratory, California	Post Doctoral fellow
1999	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
2000	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
	Italy	Macerata University	Session Chair, Paper presenter, I-O conference
	France	International Energy Agency, Paris	Invited Visiting Researcher
	Netherlands	Hague	Group Research presentation, COP6 of UNFCCC
	Switzerland	Zurich Institute of technology	Invited speaker
	Nepal	Kathamandu	Paper presenter, SANDEE conference
2001	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
	Netherlands	Amsterdam	Invited speaker-Kyoto Network conference
2002	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
	Thailand	Asian Institute of Technology, Bangkok	Paper presenter, SANDEE conference
	Bangladesh	Dhaka	Research group presentation - APN conference
	Bangladesh	Dhaka	Paper presenter, SANDEE conference
	Canada	Montreal	Session organizer, Chair , paper presenter, I-O conference
2003	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher



		Sandiego State University	Invited speaker-APN workshop
	Nepal	Kathmandu	Invited speaker-APN workshop
	SriLanka	Colombo	Paper presenter, SANDEE conference
	Bangladesh	Dhaka	Resource Person - SANDEE research& training (R&T) workshop
	Thailand	Asian Institute of Technology	Advanced Course participant-SANDEE conference
2004	USA	Lawrence Berkeley National Laboratory, California	Invited Visiting Researcher
		Howard University, Washington DC	Invited Collaboration meeting
	Nepal	Kathamandu	Resource person-SANDEE R&T workshop
	France	CERNA, Ecole de mines, Paris	Invited speaker in DEMATEEDE research collaboration
	UK	Natural Research Institute, Kent	Invited speaker, Research collaboration
	Japan	Tokyo	IPCC -CLA of AR4 meeting
	Germany	Leipzig	IPCC-CLA of AR4 meeting
2005	USA	Washington, DC	IPCC -CLA of AR4 meeting
	Peru	Lima	IPCC -CLA of AR4 meeting
	Philippines	Manila	Invited speaker-SYLFF-TKFD meeting
	Bangkok	ChiangMai	Invited speaker, APN workshop
	Ghana	Accra	Invited speaker-DFID Project meeting
	Srilanka	Colombo	Invited speaker-APN, START workshop
		Tea Research Institute	Invite spaker-Research collaboration
	Zambia	Lusaka	Project partner -DFID Project meeting
2006	South Africa	Capetown	IPCC -CLA of AR4 meeting
	China	Beijing	IPCC -CLA of AR4 meeting
	Japan	Osaka , St Andrews University	Invited lecture
		Tokyo	Invited speaker and session chair-World Bank Annual Conference for Development
	UK	London, HM Treasury	Invited in Stern review

		NRI, Chatham	Committee Meeting Invited lecture and Meeting with Project collaborators
	USA	New York University	Paper Presentation at North American Productivity Conference
	France	Paris	IPCC Meeting
	Singapore	Lin Qua School of Public Policy	Invited to World Bank and IMF meeting and Workshop by RAD
	Russia	Leontief Centre	Invited Lecture in Centenary celebration
	New Zealand	Christchurch	IPCC -CLA of AR4 meeting
2007	Denmark	Copenhagen	SYLFF Directors Meeting
	Thailand	Bangkok	IPCC-AR 4 Approval session
	Slovenia	Bled	Invited reviewer, chair, jury, World Bank ABCDE Conference
	Germany	Bochum	Invited observer at SYLFF Regional Forum
	Maldives	Male	APN-project Inception Workshop
	South Africa	Capetown	Invited speaker IPCC-AR4 dissemination workshop
2008	Thailand	Bangkok	SANDEE Workshop
		Chiang Mai	Invited participant-Workshop, Sustainability Transition
	Netherlands	Tilberg	Ph. D thesis examination
		IPCC TSU	Invited Seminar on "climate change and Indian economy"
		Utrecht University	-Do-
	Japan	Tokyo	IPCC -AR4 Dissemination workshop
	Austria	Vienna	Global Energy Assessment workshop of IIASA
	South Africa	Capetown	Jury member-ABCDE World Bank
	Spain	Seville	Key note paper- International Input-Output Conference
	Philippines	Manila	Invited speaker- Climate change: media training workshop by EEPSEA
	Switzerland	Geneva	Invited -UNEP-ADAM workshop on trade and climate

			change
	Austria	Vienna	Workshop -GEA
	France	Paris	Invited for consultation-World Bank Vice Presidency
	Netherlands	Hague	Invited speaker-World Bank Climate Change and Development
	Germany	Berlin	Invited for brain storming-World bank workshop on World Development Report
	UK	Cambridge	Project leaders meeting of Climate strategy
	France	Paris	World Bank meeting on Low Carbon Pathway
2009	Austria	Vienna	Global Energy Assessment Council Meeting.
	Denmark	Copenhagen	Invited Panelist in Climate change congress
	Japan	Osaka	Invited lecture series- MomoyamaGakuin University
	Canada	Toronto	Invited Lecture-York University
	Austria	Vienna	Executive committee meeting
	Germany	Bonn	Session chair and paper presenter-IHDP Meeting
	Mexico	Curnavaca	GRUNHE Network Meeting
	Japan	Osaka	Invited- MomoyamaGakuin University
	UK	London	Invited participant-ESRC Meeting in LSE
	Kenya	Nairobi	GRUNHE /ICUH Conference 2009
	Austria	Vienna	GEA ExComm meeting
2010	Netherlands	Groningen	Invited Public lecture on Indian Economy, Groningen university, School of Economics and Business
		Utrecht University	do
	France	Paris	Meeting at World Bank Vice Presidency
	Italy	Milan	GRUNHE meeting
	Switzerland	Zurich	ETH -invited lecture
	Austria	Vienna	GEA Ex-Committee Meeting
	Sweden	Stockholm	Chair and Jury Board member-

			ABCDE world bank
	UK	Cambridge	Invited Visiting Scholar at Faculty of Economics
	USA	LBNL, California	Invited Visiting researcher
	Belgium	Liege	IPCC meeting
	Japan	Beppu	Invited speaker-TKFD meeting
	Nepal	Kathmandu	Invited paper-SANDEE-conference
<b>2011</b>	Malayasia	Kualulumpur	APN meeting
	Germany	Hamburg	LOICZ steering committee meeting
	Austria	Vienna	Executive council meeting- GEA
	Bangladesh	Dhaka	Invited paper-Workshop on Water resource
	China	Beijing	Invited to IEA meeting on WEO
	Thailand	Bangkok	Invited participant -SANDEE Policy workshop
	Australia	Melbourne	Invited lecture-Monash University-Monash Sustainability Institute
	China	Yantai	Invited lecture, session organization and chair LOICZ-OSC, YLF
	Bangladesh	Tangail	Resource person-SANDEE-capacity building programme
	China	Yixing	Invited paper-SCOPE
	Russia	Moscow	Invited Paper-Climate change adaptation (GOI)
	Netherlands	Amsterdam	Invited participant-Climate-Nitrogen
2012	New Zealand	Wellington	IPCC meeting
	UK	London	Paper presenter-Planet Under Pressure Paper presentation
	USA	Washington DC	IPCC meeting
	Pakistan	Islamabad	Invited speaker-SDPI and SANDEE -capacity building programme
	China	Taiyuan	Paper presentation-Environmental Development
	Spain	Vigo	IPCC lead authors' Meeting
	Malayasia	Kualulumpur	Invited member in brainstorming -Future Earth-regional Vision
2013	Netherlands	Eindhoven	Paper presenter anspecial

			seminar speaker-Workshops: on Mobility and Bio fuel Transitions, Eindhoven University
	USA	Washington DC	Invited participant-Workshop: Energy access, Arizona State University
	Germany	Berlin	IPCC special meeting
	USA	California	Invited chapter author-GEA Launch by Stanford University. ECAR and DIL executive committee meeting at UCB and LBNL, Berkeley
	USA	California	Invited participant-Breakthrough Institute Annual Conference
	Ethiopia	Addis Ababa	IPCC AR5 meeting
	Japan	Yokohama	Invited speaker-LoCAR net annual conference
	Brazil	Rio de Jenerio	LOICZ SSC meeting
	Sweden	Stockholm	UNEP -Gap report meeting
	USA	New York	UCCRN Inception meeting
	Germany	Potsdam	IPCC meeting: SPM/TS
	South Korea	Seoul	Invited speaker-International Conference on Climate Change Policy Coordination and Policy Mix
	Netherlands	Eindhoven	Invited speaker-Role of climate models workshop
2014	Canada	Montreal	Invited participant-CIFAR Life in Changing Ocean Meeting
	South Africa	Capetown	Invited speaker-Development and Mitigation forum
	Srilanka	Colombo	Invited speaker-South Asian Meet on Higher education of British Council
	Thailand	Pattaya	Invited paper presenter, session chair- ICUE 2014
	Germany	Berlin	IPCC AR 5 approval session
			Multi level governance network meeting
	Thailand	Chiang Mai	WOTRO Network Workshop
	Germany	Bonn	Invited speaker-UNFCC-SED
	USA	California	Key note address-Breakthrough

			Dialogue
	Pakistan	Islamabad	Invited speaker-IPCC AR 5 dissemination workshop
	Uganda	Kampala	Invited -IPCC AR5 dissemination workshop
	Germany	Potsdam	Invited Paper -Multi level Governance Dialogue
	Thailand	Bangkok	CGIAR-CCAFS workshop
	Indonesia	Yogyakarta	Invited speaker -IPCC AR 5 dissemination workshop
	Netherlands	Amsterdam	Project partner Multilevel governance workshop
2015	Sri lanka	Gaulle	APN project workshop
	Thailand	Bangkok	Invited paper at Regional Forum on Climate Change (RFCC) - Low Carbon and Climate Resilient Societies: Bridging Science, Practice, and Policy
	Germany	Potsdam	Invited speaker at IASS
	USA	California	Invited speaker at Breakthrough Dialogue
	Norway	Stavanger	Indo-Norway Project meeting
	Pakistan	Lahore	IPCC dissemination meeting
2016	Nepal	Kathmandu	ICIMOD-HIMAP writeshop for authors
	Norway	Oslo	IPCC AR6 media and workshop on How to communicate Climate Change Related scientific messages to public
	Norway	Oslo	Invited lecture at PRIO-Climate Governance, Case study of India : Multilayered Complexities
	Belgium	Ghent	TEDx talk
	USA	California	Breakthrough Dialogue 2016
	Nepal	Kathmandu	HIMAP , authors meeting , co-chair of scenario session
	Switzerland	Geneva	IPCC meeting -invited lecture on social transition 1.5 Degree world and session co-chair on Implementations
	Russia	St Petersburg	EMEICS -Invited Lecture on Coastal risks and adaptation
	Sweden	Stockholm	Future-Earth and IPCC meeting

			on Sustainable development , Invited session co-chair on Solutions
	Germany	Wuppertal	IGES meeting on Lowcarbon network, chair and invited lecture on deep de- carbonisation in Indian industries
	Norway	Stavanger	Invited speaker on possible renewable future for India
	USA	Washington -DC	EEG -Theme lead author
	Hungary	Budapest	Water Summit
2017	Brazil	Sao Jose de campos	IPCC SR 1.5 meeting
	Nepal	Kathmandu	IPCC dissemination workshop HIMAP author meeting
	Ethiopia	Addis Ababa	IPCC Ar6 Scoping Meeting
	USA	California	Stanford Energy Forum, Breakthrough Dialogue 2017
	UK	Exeter	IPCC 1.5 Special Report author meeting
	Switzerland	Interlaken	Global Carbon Project Meeting
	Japan	Tokyo	Workshop on Global Stock Take
	Sweden	Malmo	IPCC 1.5 Report author meeting
	Germany	Bonn	COP 23 Side event speaker