

Personal Information:

Name: Bidyut Baran Saha

Work Address: Kyushu University Program for Leading Graduate



Schools, Green Asia Education Center
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Academic Qualifications:

- ① Ph.D. in Engineering, Mechanical Systems Engineering Department, Faculty of Engineering, Tokyo University of Agriculture and Technology, Japan, 1997.
- ② M.Sc. in Applied Mathematics, Faculty of Science, Dhaka University, Bangladesh, 1990 (First Class).
- ③ B.Sc. (Hon's) in Mathematics, Faculty of Science, Dhaka University, Bangladesh, 1987 (First Class).

Appointments:

- ① Professor, Program for Leading Graduate Schools, Green Asia Education Center, Kyushu University (March 2013 -).
- ② Professor, Thermophysical Properties Division, International Institute for Carbon-Neutral Energy Research (WPI-I2CNER), Kyushu University (December 2010 -).
- ③ Professor, Department of Mechanical Engineering, Faculty of Engineering, Kyushu University (February 2010 – March 2013).
- ④ Professor, International Education Center, Kyushu University (February 2010 – March 2013).
- ⑤ Senior Research Fellow, Mechanical Engineering Department, National University of Singapore (January 2009 – February 2010).
- ⑥ Visiting Professor, Research and Education Center of Carbon Resources, Kyushu University, Japan (January 2009 – March 2010).
- ⑦ Associate Professor, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Japan (April 2006 – December 2008).
- ⑧ Associate Professor, Institute for Materials Chemistry and Engineering, Kyushu University, Japan (April 2001 – March 2006).
- ⑨ Associate Professor, Department of Mechanical Systems Engineering Sciences, Tokyo University of Agriculture and Technology, Japan (July 2000 – March 2001).

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- ⑩ Assistant Professor, Department of Mechanical Systems Engineering Sciences, Tokyo University of Agriculture and Technology, Japan (April 1997 – June 2000).
- ⑪ Research Scholar, Department of Mechanical Systems Engineering Sciences, Tokyo University of Agriculture and Technology, Japan (January 1993 – March 1994).
- ⑫ Bose Fellow, Bose Center for Advanced Study in Natural Sciences, University of Dhaka, Bangladesh (January 1991 – December 1992).

Also completed M. Phil. (Part I), Major: Fluid Dynamics.

Professional Activities

- ① Executive Member, Heat Pump and Thermal Storage Technology Center of Japan (HPTCJ), Low Temperature Heat Utilization Research Group.
- ② Member, The American Society of Mechanical Engineers (ASME), (#7123912).
- ③ Member, the Japan Society of Mechanical Engineers (JSME), (#0407059).
- ④ Member, Japanese Society of Refrigeration and Air Conditioning Engineers (JSRAE), (#11881).
- ⑤ Member, Japan Society of Thermophysical Properties, (#1828289007).
- ⑥ Life Member, Indian Society for Heat and Mass Transfer, (#983).
- ⑦ Life Member, Bangladesh Mathematical Society, (#248).
- ⑧ Life Member, Japanese Universities Alumni Association in Bangladesh (JUAAB).
- ⑨ Honorary Member of Research Board of Advisors, American Biographical Institute, USA.
- ⑩ Executive Member, Center for Environmental Protection and Energy Conservation by Multiple and Advanced Utilization of Coal, Kyushu University, Japan.

Editorial Activities

- ① Editor-in-Chief, Evergreen- Joint Journal of Novel Carbon Resource Sciences & Green Asia Strategy.
- ② Managing Guest Editor, Applied Thermal Engineering, Special Issue: <http://ees.elsevier.com/ate/>
- ③ Editorial Advisory Board, Applied Thermal Engineering, <http://ees.elsevier.com/ate/>
- ④ Honorary Editorial Advisor, Ganit Journal of the Bangladesh Mathematical Society, <http://bdmathsociety.org/>
- ⑤ Editorial Board Member, Advances in Mechanical Engineering, Hindawi Publishing Corporation, <http://www.hindawi.com/journals/ame/> (Journal homepage) <http://www.hindawi.com/journals/ame/editors.html> (Current Editors).
- ⑥ Editorial Advisory Board Member, Open Mechanical Engineering Journal (OMEJ), ISSN: 1874-155X, <http://www.bentham.org/open/omej/>, Open Mechanical Engineering Reviews (OMER), ISSN: 1874-1576, <http://www.bentham.org/open/omer/>, Open Mechanical Engineering Letters (OMEL), ISSN: 1874-1568, <http://www.bentham.org/open/omel/> Bentham Science Publishers, USA.

- Guest Editor, Heat Transfer Engineering Journal (<http://www.ingentaconnect.com/content/tandf/uhfe>), ISSN: 0145-7632, Special Issue "Application of Sorption Technologies for Energy Efficiency".

- ⑦ Editorial Board Member, Fundamental Journal of Thermal Science and Engineering, (http://www.frdint.com/fundamental_journal_thermal_science_engineering_edit.html) ISSN: 2249-975X

International Conference Organizations

- ① Organizer: Global Strategy for Green Asia – MJIT Joint Workshop, Malaysia-Japan International Institute of Technology, Kuala Lumpur, February 12, 2014.
- ② General Chairman: International Conference on Innovative Materials for Processes in Energy Systems, IMPRES2013, Fukuoka, Japan, September 4-6, 2013.

- ⑤ Advisory Board Member: International Conference on Green Energy & Technology, ICGET, Kitakyushu, Japan, August 24-26, 2013.
- ⑥ General Chairman: International Conference on Innovative Materials for Processes in Energy Systems for Fuel Cells, Heart Pumps and Sorption systems, IMPRES2010, Singapore, November 30-December 2, 2010.
- ⑦ General Co-chair: International Conference on Environmental Aspects of Bangladesh (ICEAB10), Kitakyushu, Japan, September 4, 2010.
- ⑧ Executive Committee Member, 10th Cross Straits Symposium on Materials, Energy and Environmental Engineering (CSS10), Fukuoka, Japan, November 2008.
- ⑨ General Secretary, The 8th Asian Thermophysical Properties Conference, Fukuoka, Japan, August 21-24, 2007.
- ⑩ Executive Committee Member, International Seminar on the Future of Heat Cascading and Energy Systems (Dedicated to 60th Birth Anniversary of Prof. Takao Kashiwagi, December 11, 2006, Tokyo, Japan.
- ⑪ General Secretary, International Seminar on Thermally Powered Sorption Systems, Fukuoka, Japan, December 4-5, 2003.

Awards:

1. **ITEX Silver Medal** for the invention "Innovative Solar adsorption Chiller", at (23rd International Invention, Innovation and Technology Exhibition, Malaysia), Kuala Lumpur, May 2012.
2. **Best Presentation Paper Award**, The 5th Asian Conference on Refrigeration and Air Conditioning (ACRA2010), Tokyo, Japan (Award issued on 1 March 2012).
3. **IES Prestigious Engineering Achievement Award 2009** for the Development of Adsorption Desalination cum Cooling Technology
4. **Outstanding Paper Award**, The 9th Cross Straits Symposium on Materials, Energy and Environmental Engineering, Pohang, South Korea, 2007.
5. **Outstanding Paper Award**, The 6th Cross Straits Symposium on Materials, Energy and Environmental Engineering, Pohang, South Korea, 2004.
6. **Selected as One of the Best Ten Papers**, International Ab-Sorption Heat Pump Conference, Montreal, Canada, 1996.

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7. **Best Paper Award**, Japanese Society of Refrigeration and Air Conditioning Engineers (JSRAE), 1995.

Book and Book Chapters:

1. **B.B. Saha** and I.I. El-Sharkawy, "Thermally Powered Adsorption Cooling: Recent Trends and Applications", Chapter 2 in *Heat Pipes and Solid Sorption Transformations: Fundamentals and Practical Applications*, editors: L.L. Vasiliev and Sadik Kakac, ISBN: 978-1466564145, CRC Press, 2013.
2. **B.B. Saha**, M. Koyama, Y. Takata, Y. Hamamoto, T. Miyazaki, M. Kohno and K. Ito, "Innovative Materials for Processes in Energy Systems" *Chemical Science & Engineering Series 3*, Touka Shobo, ISBN: 978-4-88757-173-0, Japan, September 2013.
3. A. Chakraborty, K. Thu, **B.B. Saha** and K.C. Ng, "Adsorption-Desalination Cycle", Chapter 5 in *Advances in Water Desalination*, pp. 377-452, John Wiley & Sons., Editor: Noam Lior, ISBN: 978-0-470-05459-8, USA, November 2012.
4. **B.B. Saha** and K.C. Ng, "Advances in Adsorption Technology" *Chemistry Research and Application Series*, Nova Science Publishers Inc., ISBN: 978-1-60876-833-2, NY, July 2011.
5. **B.B. Saha**, A. Chakraborty and K.C. Ng, "Innovative Materials for Processes in Energy Systems", Research Publishing, ISBN: 978-981-08-7614-2, Singapore, December 2010.
6. K.C. Ng, I.I. El-Sharkawy, **B.B. Saha** and A. Chakraborty, "Adsorption Desalination – a Novel Method", Chapter 9 in *Handbook of Environmental Engineering, Vol. 13 – Membrane and Desalination Technologies*, Springer Science, pp. 391-431, N.J. USA, ISBN: 978-1-58829-940-6, Eds. L.K. Wang, J.P. Chen, Y-T Hung and N.K. Shamas, 2011.
7. **B.B. Saha**, A. Chakraborty, K.C. Ng and I.I. El-Sharkawy, "Study on Adsorption and Thermoelectric Cooling Systems using Boltzmann Transport Equation Approach", Chapter 2 in *Thermal Engineering Research Developments, Series: Mechanical Engineering Theory and Applications*, Nova Science Publishers Inc., ISBN: 978-1-60741-497-1, Eds. J. Evgova and O. Kostadinov, 2010.
8. K.C. Ng, **B.B. Saha**, S. Koyama and W.G. Chun, "A Methodology for Evaluating the Solar Thermal Power Rating and Carbon Dioxide Emission Savings from a Solar Hot Water Plant", Appendix 1 in *Ecological Architectural Series 7, Natural Energy and Ecological Technology*, pp. 233-241, ISBN: 89-91004-80-6, GoWon Publishing Inc., Seoul, Korea, January 2007.
9. A. Akisawa, **B.B. Saha**, et al., "Desiccant Air Conditioning System (in Japanese)", ISBN: 4-8190-1811-6, Nihon Kogyo Shippun-Sha, Tokyo, Japan, December 2