

Mohammad Mahbubur Rahman

School of Engineering & Energy
Murdoch University
Perth, Western Australia 6150, Australia
E-mail: mahbub235@yahoo.com
Cell Phone: +61- 470015102

ACADEMIC BACKGROUND:

Doctor of Philosophy, School of Engineering & Energy, Murdoch University, Perth, Western Australia 6150, Australia, 201-2015 (On Going).

Concentration: Surface Analysis and Materials Characterizations

Master of Science, Physics, School of Graduate Studies, Memorial University of Newfoundland, Canada, 2009.

Concentration: Condensed Matter Experiment

Dissertation: Investigation of the Effect of Uniaxial Stress on the Elastic Properties of $\text{Rb}_4\text{LiH}_3(\text{SO}_4)_4$

Courses: Condensed Matter Physics, Electrodynamics, Quantum Mechanics & Experimental Techniques in Condensed Matter Physics

Master of Philosophy, Physics, Department of Physics, Khulna University of Engineering & Technology, Khulna 9203, Bangladesh, 2007.

Concentration: Condensed Matter Experiment

Dissertation: Study of Hard Magnetic Properties of Hexagonal Ferrite with the Addition of Rare-earth Oxides using Cox's Bazar Beach Sand

Courses: Magnetism, Optical Crystallography, X-ray Crystallography, Soft & Hard Magnetic Materials, Atmospheric Thermodynamics

Master of Science, Physics, Department of Physics, Jahangirnagar University, Savar, Dhaka 1342, Bangladesh, 2001.

Concentration: Health Physics and Nuclear Radiation

Dissertation: Shield Design and Safety Evaluation for Linear Accelerator and Brachytherapy Facility using Computer Code

Courses: Quantum Mechanics, Electronics, Reactor Physics, Plasma Physics & Health Physics and Nuclear Radiation.

Bachelor of Science (Hons.), Physics, Department of Physics, Jahangirnagar University, Savar, Dhaka 1342, Bangladesh, 1999.

PROFESSIONAL CERTIFICATE PROGRAM:**Teaching Opportunity for Graduate Assistants (TOGA) Certificate Program, Winter 2008**

A certificate program for full-time graduate students sponsored by the School of Graduate Studies and coordinated by the Instructional Development Office at Memorial University of Newfoundland.

RESEARCH SKILLS:

- Utilized Landau Model to verify the experimental data of elastic properties of ferroelastic materials
- Studied the hard magnetic properties of magnetic materials using XRD, SEM and PPMS

THESIS SUPERVISIONS at JAHANGIRNAGAR UNIVERSITY:

No.	Name of Students	Title of the Thesis/Dissertation	Level of Study	Progress Status
1	Soheli Parvin	Study of Structural, Magnetic and Electrical Properties of Ba-hexaferrites with Additives	Master of Science	Completed in 2010
2	Nipa Debnath	Investigation of the Effect of Additives on the Magnetic and Electrical Properties of Sr-hexaferrites	Master of Science	Completed in 2010
3	Md. Shahin Sheak	Investigation of the Effect Cu-Substitution on Magnetic and Electrical Properties of Mg-Zn Ferrites	Master of Science	Completed in 2011
4	Prashanta Kumar Halder	Study of Magnetic and Dielectric Properties of $Mn_xZn_{0.4}Ca_{0.6-2x}Fe_{2+x}O_4$ Ferrites	Master of Science	Completed in 2011
5	Mithun Kumar Das	Effect of Ni-substitution on the Magnetic Properties of Li-Mg-Ferrites	Master of Science	Completed in 2011
6	Bonalata Monmon Sonia	Study of Structural, Magnetic and Electrical Properties of Nickel Substituted Li-Mg Ferrites	Master of Science	Completed in 2012
7	Abdullah Al Hadi	Study of Magnetic and Electrical properties of Mn-Zn Ferrites	Master of Science	Completed in 2012

LANGUAGES:

- Fluent in English and Bengali
- Medium of Instruction was in English in All the Undergraduate and Postgraduate Studies.

PROFESSIONAL EXPERIENCES:

Assistant Professor: April 12, 2011- Present

Department of Physics, Jahangirnagar University Savar, Dhaka-1342, Bangladesh

Courses: Ph-302: Electrodynamics, Ph-402: Astronomy and Cosmology, BGE-103: Basic Physics for undergraduate students of Biotechnology and Genetic Engineering Department, Ph-109: First Year Physics Laboratory.

Lecturer: April 10, 2010- April 11, 2011

Department of Physics, Jahangirnagar University Savar, Dhaka-1342, Bangladesh
Courses: Ph-302: Electrodynamics, Ph-402: Astronomy and Cosmology, BGE-103: Basic Physics for undergraduate students of Biotechnology and Genetic Engineering department, Ph-109: First Year Physics Laboratory.

Assistant Professor: October 03, 2006- April 09, 2010

Department of Physics, Khulna University of Engineering and Technology, Khulna, Bangladesh
Courses: Teaching various theoretical and laboratory courses in different area of Physics to undergraduate students of the University.

Teaching Assistant, Winter 2009

Department of Physics, Memorial University of Newfoundland
Courses: Phys 3410 (Statistical Mechanics).

Teaching Assistant, Fall 2008

Department of Physics, Memorial University of Newfoundland
Courses: Phys 1020 (First Year Physics Lab) Two Units.

Teaching Assistant, Winter 2008

Department of Physics, Memorial University of Newfoundland
Courses: Phys1051 (First Year Physics Lab).

Teaching Assistant, Winter 2008

Department of Physics, Memorial University of Newfoundland
Courses: Phys 4500 (Electromagnetic Theory).

Teaching Assistant, Fall 2007

Department of Physics, Memorial University of Newfoundland
Courses: Phys 3750 (Quantum Physics-I).

Lecturer, June 01, 2003- October 02, 2006

Department of Physics, Khulna University of Engineering and Technology, Khulna, Bangladesh.
Courses: Teaching various theoretical and laboratory courses in different area of Physics to undergraduate students of the University.

Lecturer (GUEST LECTURER- Part-time), 2004-2006

Khulna University, Khulna, Bangladesh
Courses: Teaching various theoretical and laboratory courses in different area of Physics to undergraduate students.

Lecturer: December 31, 2001-May 20, 2003

Department of Physics, National College of Home Economics, Lalmatia, Dhaka, Bangladesh.

Courses: Various theoretical and laboratory courses in different area of Physics to the undergraduate students of the college.

ADMINISTRATIVE EXPERIENCES:

1. Undergraduate and Postgraduate course coordinator, Department of Physics, Jahangirnagar University, Savar, Dhaka-1342 Bangladesh from July 2010 to till date.
2. Sports Teacher in Charge, Department of Physics, Jahangirnagar University, Savar, Dhaka-1342 Bangladesh from July 2010 to till date.
3. Assistant House Tutor, Begum Khaleda Zia Hall, Jahangirnagar University, Savar, Dhaka-1342 Bangladesh from May 2011 to till date.
4. Undergraduate course coordinator: Department of Physics, Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh from 2005 to 2007.
5. Member, Board of Directors, Graduate Student Union, Memorial University of Newfoundland, St. John's, Newfoundland, Canada from 2008-2009.

WORKSHOPS/SEMINARS/ SYMPOSIUMS/ CONFERENCES ATTENDED:

1. International Workshop on Tools, Implants and Biometry organized by Institute of Fuel Research and Development (IFRD), Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka-1000, Bangladesh. May 17-18, 2012.
2. International Conference on Physics of Today (ICPT-2012) organized by Bangladesh Physical Society at Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh. March 15-16, 2012.
3. National Conference on Advances in Physics 2012 (NCAP-2012), Department of Physics, Shahjalal University of Science & Technology (SUST), Sylhet-3114, Bangladesh. February 28-29, 2012.
4. Quantum Method Course for Mind Development and Self-Improvement, Yuga Foundation, Institute of Diploma Engineers Bangladesh (IDEB), Dhaka, Bangladesh. November 25-28, 2011 & October 8-11, 2010.
5. National Conference on Applications of Tandem Accelerator for Research and Services in the Socio-Economic Development, Training Institute, Bangladesh Atomic Energy Research Establishment (AERE), Savar, Dhaka, Bangladesh. June 26, 2011.

6. International Conference on Magnetism and Advanced Materials (ICMAM-2010) Organized by Bangladesh Physical Society at Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh. March 03-07, 2010.
7. National Conference on Materials Science & Technology for Sustainable Development: Bangladesh Perspective held at Chittagong University of Engineering & Technology (CUET), Chittagong, Bangladesh November 08, 2009.
8. Memorial's Student Leadership Conference- Leader Forum 2009. Memorial Student Services, Memorial University of Newfoundland, St. John's, Newfoundland, Canada March 28, 2009.
9. Aldrich Conference, Graduate Student Union, Memorial University of Newfoundland, St. John's, Canada. February 2009.
10. Aldrich Conference, Graduate Student Union, Memorial University of Newfoundland, St. John's, Canada. February 2008.
11. National Conference of Bangladesh Physical Society at Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
12. Regional Physics Conference of Bangladesh Physical Society. Organized by Bangladesh Physical Society at Bangladesh Atomic Energy Commission (BAEC), Ramna, Dhaka-1000, Bangladesh, 2006.
13. International Conference on Medical Physic organized by Bangladesh Medical Physicists Association. Department of Physics at Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2000.

CURRENT RESEARCH INTERESTS:

1. Surface Analysis and Materials Characterizations (Sol-gel Optical Thin Film Based Photovoltaic Thermal Solar Devices).
2. Synthesis, Characterization and Properties of Soft and Hard Ferrites.
3. Study of Elastic Properties of Ferroelastic Materials.
4. Study of Magnetic Properties of Magnetic Materials.

PUBLICATIONS:**BOOKS:**

1. **Magnetic and Dielectric Properties of Materials: Basics, Theories and Experiments.** ISBN 978-3-659-24268-7. LAP LAMBERT Academic Publishing, AVAkademikerverlag GmbH & Co. KG, Heinrich-Böcking-Str. 6-8, 66121, Saarbrücken, Germany (2012).

JOURNAL PAPERS:

1. Mithun Kumar Das, **M. Mahbubur Rahman**, Banalata Monmon Sonia, Farid Ahmed, Md. Abul Hossain, Mashudur Rahaman, M. Shahriar Bashar, Tofazzal Hossain, D.K Saha & Shireen Akhter. *Magnetic, Dielectric and Electrical Properties of Lithium-Magnesium Ferrites.* Advanced Chemistry Letters (2013). **In Press.**
2. Z. H. Khan, **M. Mahbubur Rahman**, S.S. Sikder, M.A. Hakim and D.K. Saha. *Complex Permeability in Iron Deficient Ni-Cu-Zn Ferrites.* Journal of Alloys and Compounds **548**, (2013) 208-215.
3. Amun Amri, XiaoFei Duan, Chun-Yang Yin, Zhong-Tao Jiang, **M. Mahbubur Rahman** and Trevor Pryor. *Solar Absorptance of Copper Cobalt Oxide Thin Film Coatings with Nano-size, Grain-like Morphology: Optimization and Synchrotron Radiation XPS Studies.* Applied Surface Science (2013). **In Press.**
4. Z.H. Khan, **M. Mahbubur Rahman**, S.S. Sikder, M.A. Hakim, Shireen Akhter, H.N. Das and B. Anjuman. *Thermal Hysteresis of Permeability and Transport Properties of Cu Substituted $Ni_{0.28}Cu_{0.10+x}Zn_{0.62-x}Fe_{1.98}O_4$ Ferrites.* Advanced Chemistry Letters (2013). **In Press.**
5. **M. Mahbubur Rahman**, Md. Wahid Sadik, S.S. Sikder and M.A. Hakim. *Study of Order-Disorder Phase Transition and Lattice Parameter of Ni-Pt Alloys.* Journal of Advanced Physics, **2** (2), (2013) 1-7.
6. Sumon Kumar Nath, **M. Mahbubur Rahman**, S.S. Sikder and M.A. Hakim. *Magnetization and Magnetic Behavior of $Ni_{1-x}Cd_xFe_2O_4$ Ferrites.* ARPN Journal of Science & Technology, **3**(1) (2013) 106-111.
7. Arfin Jahan, **M. Mahbubur Rahman**, Humayun Kabir, Md. Alamgir Kabir, Farid Ahmed, Md. Abul Hossain, Md. Abdul Gafur. *Optical, Electrical and Thermal Properties of Jute and Glass Fiber Reinforced LDPE Composites.* International Journal of Basic and Applied Sciences, **1** (3), (2013) 482-490.
8. Nipa Debnath, **M. Mahbubur Rahman**, Farid Ahmed & M.A. Hakim. *Study of the Effect of Rare Earth Oxide Addition on the Magnetic and Dielectric Properties of Sr-Hexaferrites.* International Journal of Engineering & Technology, **12** (5), (2012) 49-52.
9. Aleya Fardausy, Md. Alamgir Kabir, Humayun Kabir, **M. Mahbubur Rahman**, Khadiza Begam, Farid Ahmed, Md. Abul Hossain, Md. Abdul Gafur. *Study of Physical, Mechanical and Thermal Properties of Unidirectional Jute Fiber Reinforced PVC Film*

- Composites*. International Journal of Advanced Research in Engineering & Technology, **3** (2), (2012) 267-274.
10. Nipa Debnath, **M. Mahbubur Rahman**, Farid Ahmed & M.A. Hakim. *Magnetic and Dielectric Properties of M-Type Sr-Hexaferrites with the Addition of Calcium Oxide and Silicon-di-Oxide*. Journal of Advanced Physics, **1** (2), (2012) 136-139.
 11. Shammya Aroze, **M. Mahbubur Rahman**, Humayun Kabir, Md. Alamgir Kabir, Farid Ahmed, Md. Abul Hossain, Md. Abdul Gafur. *Physical, Optical and Thermal Properties of Graphite and Talc Filler Reinforced Polypropylene (PP) Composites*. International Journal of Advanced Scientific and Technical Research, **5** (2), (2012) 40-49.
 12. Humayun Kabir, **M. Mahbubur Rahman**, Tanu Shree Roy, A.H. Bhuiyan. *Structural and Optical Properties of Plasma Polymerized Pyromucic Aldehyde Thin Films*. International Journal of Mechanical and Mechatronics Engineering, **12** (05), (2012) 30-34.
 13. Arfin Jahan, **M. Mahbubur Rahman**, Humayun Kabir, Md. Alamgir Kabir, Farid Ahmed, Md. Abul Hossain, Md. Abdul Gafur. *Comparative Study of Physical and Elastic Properties of Jute and Glass Fiber Reinforced LDPE Composites*. International Journal of Scientific and Technology Research, **1** (10), (2012) 68-72.
 14. Shammya Aroze, Humayun Kabir, **M. Mahbubur Rahman**, Md. Alamgir Kabir, Farid Ahmed, Md. Abul Hossain, Md. Abdul Gafur. *Elastic and Electrical Properties of Graphite and Talc Filler Reinforced Polypropylene (PP) Composites*. International Journal of Basic & Applied Sciences, **12** (05), (2012) 13-16.
 15. **M. Mahbubur Rahman**, Md. Shahin Sheakh, Sohely Pervin, Nasir Uddin, Farid Ahmed, Md. Abul Hossain, Mashudur Rahaman, M. Shahriar Bashar, Tofazzal Hossain & Shireen Akhter. *Composition, Temperature and Frequency Dependent Magnetic, Dielectric and Electrical Properties of Magnesium-Zinc Ferrites*. Journal of Bangladesh Academy of Sciences, **36** (2), (2012) 199-212.
 16. Soheli Pervin, **M. Mahbubur Rahman**, Farid Ahmed & M.A. Hakim. *Investigation of Magnetic, Dielectric and Electrical Properties of Ba-hexaferrites*. Indian Journal of Physics, **86** (12), (2012) 1065-1072.
 17. **M. Mahbubur Rahman**, Md. Wahid Sadik, S.S. Sikder and M.A. Hakim. *Study of Long Range Order Parameter of Nickel-Platinum Alloys by X-ray Diffraction Technique*. Jahangirnagar University Physics Studies, **18**, (2012) 1-8.
 18. **M. Mahbubur Rahman**, Prashanta Kumar Halder, Farid Ahmed, Mashudur Rahman & Tofazzal Hossain. *Effect of Ca-substitution on the Magnetic and Dielectric Properties of Mn-Zn Ferrites*. Journal of Scientific Research, **4** (2), (2012) 297-306.

19. Saraut Noor, **M. Mahbubur Rahman**, M.A. Hakim & S.S. Sikder. *Effect of Cd Substitutions on Structural and Transport Properties of Co ferrites*. Jahangirnagar University Journal of Science, **34** (2), (2011) 1-11.
20. Siba Pada Mondal, **M. Mahbubur Rahman**, S.S. Sikder & M.A. Hakim. *Effect of Annealing Temperature on the Kinetics of Structural Relaxation and Magnetization of Fe-Cu-Nb-Si-B Nanocrystalline Amorphous Ribbons*. Journal of Engineering Science, **02**, (2010) 59-64.
21. **M. Mahbubur Rahman**, S.S. Sikder & M.A. Hakim. *Investigation of the Effect of Rare-Earth Substitution on the Hard Magnetic Properties of M-Type Sr-Hexaferrite*. Jahangirnagar University Journal of Science, **33** (2), (2010) 131-143.
22. **M. Mahbubur Rahman**, Saraut Noor, S.S. Sikder, M.A. Hakim & D.K. Saha. *Influence La_2O_3 , CaO and SiO_2 Addition on the Microstructure and Hysteresis Parameters of Ba-hexaferrite using Magnetite from Cox's Bazar Beach Sand in Bangladesh*. Journal of Engineering Science, **1** (1), (2010) 9-14.
23. S.S. Sikder, **M. Mahbubur Rahman**, Khan Alal Uddin & Abu Hasan Bhuiyan. *Effect of Salinity on Dynamic Dielectric Properties of Sundori Wood of Bangladesh*. Bangladesh Journal of Physics, 7 & 8, (2009) 55-61.
24. **M. Mahbubur Rahman**, S.S. Sikder, D.K. Saha & M.A. Hakim. *Study of Structural and Magnetic Properties of Sr-hexaferrites Using Additives*. Bangladesh Journal of Physics, 5 & 6, (2008) 11-19.
25. **M. Mahbubur Rahman**, S.S. Sikder, S. Manjura Hoque & M.A. Hakim. *Effect of Additives on Structural and Magnetic Properties of M-type Ba-hexaferrites*. Jahangirnagar University Journal of Science, **30** (1), (2007) 67-78.

READY TO SUBMIT

1. **M. Mahbubur Rahman**, Alex Duan, Zhong-Tao Jiang, Zonghan Xie, Alex Wu, Amun Amri, Bruce Cowie, Nick Mondinos, Chun-Yang Yin. *Near-edge X-ray Absorption Fine Structure Studies of $Cr_{1-x}M_xN$ Coatings*. (2013).
2. **M. Mahbubur Rahman** & Guy Quirion. *Landau Analysis of the Elastic Properties of $Rb_4LiH_3(SO_4)_4$* . (2013).

CONFERENCE PAPERS:

CONFERENCE PROCEEDINGS:

1. **M. Mahbubur Rahman**, S. S. Sikder & M. A. Hakim. *Study of Permeability, Resistivity and Microstructure of Ba-hexaferrites*. Proceedings of International Conference on Magnetism and Advanced Materials. Bangladesh University of Engineering & Technology, Dhaka, Bangladesh. March 03-07, 2010.

2. **M. Mahbubur Rahman**, Siba Pada Mondal, S. S. Sikder & M. A. Hakim. *Investigation of the Effect of Additives on the Permeability and Resistivity of Sr-hexaferrite*. Proceedings of National Conference on Materials Science & Technology for Sustainable Development: Bangladesh Perspective. Chittagong University of Engineering & Technology (CUET), Chittagong, Bangladesh. November 08, 2009.

CONFERENCE PRESENTATIONS (ORAL & POSTERS):

1. Abdulla Al Hadi, F. Ahmed, **M. Mahbubur Rahman**, Nazmunnahar Begum, B. Anjuman, A. Parveen and D.K. Saha. *Study of Magnetic and Electrical Properties of Ca-substituted Mn-Zn Ferrites*. National Conference on Physics for Technology Development Organized by Bangladesh Physical Society (BPS) at Atomic Energy Centre, Ramna, Dhaka 1000, Bangladesh. December 27-28, 2012.
2. B. M. Sonia, F. Ahmed, **M. Mahbubur Rahman**, Nazmunnahar Begum, B. Anjuman, A. Parveen, H.N. Das and D.K. Saha. *Structural, Electrical and Magnetic Properties Study of Ni-substituted Li-Mg Ferrites*. National Conference on Physics for Technology Development Organized by Bangladesh Physical Society (BPS) at Atomic Energy Centre, Ramna, Dhaka 1000, Bangladesh. December 27-28, 2012.
3. **M. Mahbubur Rahman**, Alex Duan, Zhong-Tao Jiang, Zonghan Xie, Alex Wu, Amun Amri, Bruce Cowie, Nick Mondinos. *Synchrotron Studies of Local Bondings on the Materials' Hardness and Oxidation Resistance of $Cr_xM_{1-x}N$ Coatings*. User Meeting, Australian Synchrotron, 800 Blackburn Road, Melbourne, VIC 3168, Australia. November 29-30, 2012.
4. Shammy Afroze, Humayun Kabir, **M. Mahbubur Rahman**, Md. Alamgir Kabir, Farid Ahmed, & Md. Abdul Gafur. *Comparative Study of Physical, Mechanical and Electrical Properties of Graphite and Talc Filler Reinforced Polypropylene Composites*. Presented in the International Workshop on Tools, Implants and Biometry organized by Institute of Fuel Research and Development (IFRD), Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka-1000, Bangladesh. May 17-18, 2012.
5. Shammy Afroze, Humayun Kabir, **M. Mahbubur Rahman**, Md. Alamgir Kabir, Farid Ahmed, & Md. Abdul Gafur. *Optical and Thermal Properties of Graphite and Talc Filler Reinforced Polypropylene Composites*. Presented in the International Workshop on Tools, Implants and Biometry organized by Institute of Fuel Research and Development (IFRD), Bangladesh Council of Scientific and Industrial Research (BCSIR), Dhaka-1000, Bangladesh. May 17-18, 2012.
6. Proshanta Kumar Halder, **M. Mahbubur Rahman**, Farid Ahmed, Tofazzal Hossain & Mashudur Rahman. *Effect of Ca-Substitution on the Magnetic and Dielectric Properties of Mn-Zn Ferrites*. Presented in the International Conference on Physics of Today (ICPT-2012) organized by Bangladesh Physical Society at Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh. March 15-16, 2012.

7. **M. Mahbubur Rahman**, S. S. Sikder & M. A. Hakim. *Effect of La_2O_3 and $[SiO_2 + CaO]$ Addition on the Hard Magnetic Properties of Sr-hexaferrites*. Presented in the Aldrich Conference, Graduate Student Union, Memorial University of Newfoundland, St. John's, Canada, 2008.
8. **M. Mahbubur Rahman**, S. S. Sikder & M. A. Hakim. *Synthesis and Characterization of Rare-earth Oxide and $(CaO + SiO_2)$ Substituted Barium Hexaferrites*. Presented in National Conference of Bangladesh Physical Society in Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
9. **M. Mahbubur Rahman**, Khan Alal Uddin, S. S. Sikder & Abu Hasan Bhuiyan. *The Effect of Salinity on Thermal Conductivity of Sundari Wood*, Presented in National Conference of Bangladesh Physical Society in Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
10. Z. H. Khan, **M. Mahbubur Rahman**, & M. A. Hakim. *Effect of Cadmium Substitution on Magnetic Properties of $Ni_{1-x}Cd_xFe_2O_4$ Ferrites*. Presented in National Conference of Bangladesh Physical Society in Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
11. **M. Mahbubur Rahman**, Akramuzzaman & M. A. Sattar Mollah. *Investigation of the Low Cost Shielding Materials: A Case Study of Brachytherapy Facility of BSMMU Bangladesh*. Presented in National Conference of Bangladesh Physical Society in Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
12. **M. Mahbubur Rahman**, Akramuzzaman & M. A. Sattar Mollah. *Study of Some Locally Available Shielding Materials for Linear Accelerator Facility using Computer Code*. Presented in National Conference of Bangladesh Physical Society in Bangladesh University of Engineering & Technology (BUET), Dhaka-1000, Bangladesh, 2007.
13. Z. H. Khan, **M. Mahbubur Rahman**, & M. A. Hakim. *Two Step Annealing Time Effects on Magnetization Process of Co-Fe-based Amorphous Ribbons*. Presented in Regional Physics Conference of Bangladesh Physical Society in Bangladesh Atomic Energy Commission (BAEC), Dhaka-1000, Bangladesh, 2006.
14. **M. Mahbubur Rahman**, Khan Alal Uddin, S. S. Sikder & Abu Hasan Bhuiyan. *The Effect of Salinity on Dynamic Dielectric Permittivity and Conductivity of Sundari Wood*. Presented in Regional Physics Conference of Bangladesh Physical Society in Bangladesh Atomic Energy Commission (BAEC), Dhaka-1000, Bangladesh, 2006.

PROFESSIONAL MEMBERSHIPS:

1. **Member-** Institute of Science Index (ISI), Membership No. 58.
2. **Senior Member-** International Association for Engineering & Management Education (IAEME)

3. **Member-** International Organization on Technical and Physical Problems of Engineering (IOTPE)
4. **Member-** Global Journals Inc. (USA). Global Journals of Science Frontier Research (GJSFR)
5. **Member-** World Scientific and Engineering Academy and Society (WSEAS)
6. **Member** - International Society for Environmental Information Sciences (ISEIS)
7. **Member-** World Environment Organization
8. **Member** - International Natural Hygiene Society (INHS)
9. **Member-** European Society for Research and Prevention on Environment and Health (European SREH)
10. **Member** -International Society of Zoological Sciences (ISZS), Membership No. 995-I.
11. **Member-** Amazon Community animal Rescue, Education and Safety (Amazon CARES)
12. **Member-** International Society for Molecular Recognition (ISMR)
13. **Member-** International Global Navigation Satellite Systems (IGNSS)
14. **Member-** The International Association for Ecology (INTECOL)
15. **Member-** International Association of Engineers and Scientists (IAES)
16. **Member-** Society of Asian Scientists and Engineers (SASE)
17. **Life Member-** Bangladesh Physical Society (BPS), Bangladesh
18. **Member-** Teacher's Association of Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh. From June 01, 2003 to April 09, 2010
19. **Member-** Teacher's Association of Jahangirnagar University, Savar, Dhaka-1342, Bangladesh. From April 10, 2010 to till date

REVIEWER/EDITOR:

1. **Reviewer-** World Applied Sciences Journal (ISSN 1818-4952- Published by International Digital Organization for Scientific Information (IDOSI))
2. **Reviewer- International Journal of Engineering & Sciences** (IJENS Researchers Promotion Group).
3. **Reviewer- International Journal of Scientific & Technology Research (IJSTR), France.**
4. **Reviewer-** Journal of Current Engineering Research
5. **Reviewer-** Continental Journal of Renewable Energy
6. **Reviewer-** International Journal of Engineering & Technology, Science Publishing Corporation, Greifswalder Platz 7, 28239 Bremen, Germany
7. **Reviewer-** International Journal of Energy & Technology (IJET), Italy
8. **Reviewer-** International Journal of Basic & Applied Sciences, Science Publishing Corporation, Greifswalder Platz 7, 28239 Bremen, Germany
9. **Reviewer-** International Journal of Science Engineering & Technology (IJSET)
10. **Reviewer-** International Journal of Renewable Energy Research (IJRER)

SCHOLARSHIPS/HONORS/AWARDS/FELLOWSHIPS:

- Murdoch International Postgraduate Research Scholarships (MIPS), 2012 by the Murdoch University to pursue PhD studies in the School of Engineering & Energy at Murdoch University, Murdoch, Western Australia 6150, Australia.

- Award from International Physics Conference 2009 organized by Bangladesh Physical Society for one of the best posters presentation, Bangladesh, 2009.
- Merit Award from School of Graduate Studies, Memorial University, St. John's, Canada, 2008-2009.
- Scholarship from the School of Graduate Studies, Memorial University, St. John's, Canada, 2007-2009.
- TOGA 2 Fellowship from the School of Graduate Studies, MUN, St. John's, Canada, Winter 2009.
- TOGA 2 Fellowship from the School of Graduate Studies, MUN, St. John's, Canada, Winter 2008.
- TOGA 2 Fellowship from the School of Graduate Studies, MUN, St. John's, Canada, Fall 2008.
- Bangladesh-Sweden Trust Fund Travel Grant to pursue higher study at Memorial University of Newfoundland, St. John's, Canada, 2007.
- Dutch-Bangla Bank Foundation Fellowship for the study and research excellence in Master of Philosophy, 2006-2007.
- Award from National Conference of Bangladesh Physical Society for one of the best posters presentation, Bangladesh, 2007.
- University Grant Commission Scholarship for the academic excellence in undergraduate level in Jahangirnagar University, Savar, Dhaka, Bangladesh, 1998-1999.
- University Scholarships in Honors 1st, 2nd and 3rd year level for the academic excellence in undergraduate level in Jahangirnagar University, Savar, Dhaka, Bangladesh, 1994-1997.

REFERENCES:

1. **Dr. John K. C. Lewis**
Professor, Department of Physics
Memorial University of Newfoundland (MUN)
St. John's, Canada, A1B 3X7
E-mail: court@mun.ca
2. **Dr. Zhong-Tao Jiang**
Lecturer, School of Engineering & Energy
Murdoch University, Murdoch, WA 6150
Australia
Email: Z.Jiang@murdoch.edu.au
3. **Dr. Chun Yang Yin**
Lecturer, School of Chemical & Mathematical Sciences
Murdoch University, Murdoch, WA 6150
Australia
Email: C.Yin@murdoch.edu.au

- 4. Dr. Shibendra Shekher Sikder**
Professor, Department of Physics
Khulna University of Engineering & Technology (KUET)
Khulna, Bangladesh
E-mail: sssikder@yahoo.com
Phone: (+88)-01714-087 393
- 5. Dr. Md. Abul Hossain**
Professor, Department of Physics
Jahangirnagar University
Savar, Dhaka-1342, Bangladesh
E-mail: mdabulh@hotmail.com
Phone: (+88)-01712 032 925
- 6. Dr. Md. Obaidur Rahman**
Professor, Department of Physics
Jahangirnagar University
Savar, Dhaka-1342, Bangladesh
E-mail: rahmankek@hotmail.com
Phone: (+88)-01553 137917