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**Year of Birth:** 1965

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**Designation:**

Professor (Grade-1) & Former Chairman, Department of Applied Chemistry & Chemical Engineering, University of Dhaka  
&  
Former Director (Acting), Institute of Leather Engineering and Technology, University of Dhaka

**Education:**

- **Ph.D. in Environmental Earth Sciences, 1996**, Results: Grade A, Hokkaido University, Japan
- **M.Sc. in Chemistry, 1986**, Results: 1<sup>st</sup> Class, University of Dhaka, Bangladesh
- **B.Sc. (Hons.) in Chemistry, 1985**, Results: 1<sup>st</sup> Class, University of Dhaka, Bangladesh

**Postdoctoral Training:**

- **Postdoctoral teaching fellow**, Marquette University, Chemistry Department, U.S.A., August 2000 – May 2001
- **Postdoctoral Fellow**, Rensselaer Polytechnic Institute, Chemical Engineering Department, U.S.A., June 2001 – May 2002
- **Postdoctoral Fellow**, National Taiwan University, Department of Chemistry, Taiwan, January 2004 – July 2004
- **Postdoctoral Fellow**, Institute of Atomic & Molecular Sciences, Taipei, Taiwan, August 2004 – July 2005

**Complete Professional Background:**

- **Lecturer**, Department of Chemistry, Dhaka University, Bangladesh, September 1991 – January 1992
- **Research Associate**, Research Institute for Electronic Sciences, Hokkaido University, Japan, January 1992 – March 1993
- **Ph.D. Researcher**, Graduate School of Environmental Earth Sciences, Laboratory of Molecular Photochemistry, Hokkaido University, Japan, April 1993 – March 1996
- **Assistant Professor**, Department of Applied Chemistry and Chemical Technology, Dhaka University, Bangladesh, July 1996 - May 2000
- **Associate Professor**, Department of Applied Chemistry and Chemical Technology, Dhaka University, Bangladesh, June 2000 – July 2000
- **Associate Professor**, Department of Applied Chemistry and Chemical Technology, Dhaka University, Bangladesh, June 2002 – December 2003
- **Associate Professor**, Department of Applied Chemistry and Chemical Technology, Dhaka University, Bangladesh, August 2005 – December 2006
- **Professor**, Department of Applied Chemistry and Chemical Engineering, Dhaka University, Bangladesh, Dec. 13, 2006 – present: I have made significant contributions to the academic and

research aspects of my field. My responsibilities have included designing and delivering courses, mentoring students, conducting research, and shaping the overall academic environment. I have played a key role in influencing curriculum development and fostering a dynamic learning experience.

#### **Fellowship/Scholarship:**

- National Science Council Fellowship, Taiwan, January 2004 – July 2005
- Postdoctoral Research Fellowship, USA, June 2000 – May 2002
- Postdoctoral Teaching Fellowship, USA, August 2000 – May 2001
- Japanese Government Graduate Fellowship, January 1992 – March 1996

#### **Administrative Job Experience:**

- **Acting Chairman**, Department of Applied Chemistry and Chemical Engineering, Dhaka University, Bangladesh, Mar. 01, 2010 to Feb. 28, 2011:  
As Acting Chairman of the Department, I provided interim leadership, ensuring the smooth operation of the department during the transition period. I managed day-to-day administrative tasks, made critical decisions, and continued or initiated strategic initiatives to align with the department's goals. My role involved supporting faculty and addressing student concerns, overseeing budget management, and ensuring the efficient use of resources. Additionally, I implemented university policies and maintained compliance with institutional guidelines, all while facilitating collaboration within the department and beyond.
- **Student Advisor**, Department of Applied Chemistry and Chemical Engineering, Dhaka University, Bangladesh, Jan. 01, 2009 –Dec. 31, 2011:  
I offered valuable guidance in academic planning, career advice, and addressing challenges for students in Applied Chemistry and Chemical Engineering. My mentorship has greatly contributed to the overall success and well-being of students.
- **Chairman**, Department of Applied Chemistry and Chemical Engineering, Dhaka University, Bangladesh, Feb. 01, 2013 to Jan. 31, 2016:  
As Chairman of the Department, I provided overall leadership by developing strategic plans to ensure departmental growth and alignment with university goals. I oversaw budget and resource management, ensuring efficient use of resources. My responsibilities included leading faculty recruitment, promoting professional development, and shaping the curriculum to maintain high academic standards. I supported both students and faculty in their academic and research endeavors, while also implementing policies and representing the department in university and external engagements.
- **Head, Program Self-Assessment**, Department of Applied Chemistry and Chemical Engineering, Institutional Quality Assurance Cell (IQAC), Dhaka University, Dhaka-1000, Bangladesh, Feb. 01, 2015 to Jun. 30, 2018:  
I played a pivotal role in evaluating and enhancing the effectiveness of the Applied Chemistry and Chemical Engineering program. This involved reviewing curriculum outcomes, assessing teaching methodologies, and implementing changes for program quality. My commitment to program assessment reflects my dedication to continuous improvement and high academic standards.
- **Acting Director**, Institute of Leather Engineering and Technology, University of Dhaka, Bangladesh, Nov. 22, 2018 to Sept. 02, 2020:  
As the Director of the Institute of Leather Engineering and Technology, I oversaw all academic, research, and administrative aspects. This included curriculum development, faculty management, financial oversight, and fostering industry collaborations. My role contributed to the institute's growth and alignment with industry needs.

#### **Expert Member:**

- University Grants Commission, Government of the Peoples Republic of Bangladesh
- Bangladesh Standards & Testing Institution

- Bangladesh Council for Scientific and Industrial Research
- Bangladesh Chemical Industries Corporation
- Bangladesh Public Service Commission
- Bangladesh National Authority for Chemical Weapons Convention

**Field of Research:** Reaction dynamics, reaction kinetics, laser spectroscopy, thin film sensors, organometallic synthesis, photochemistry, environmental chemistry etc.

## **Publications:**

### **I. Dissertations:**

**M.Sc. Thesis Title:** The nature of the mixed diorganomagnesium cuprate reagents, *Department of Chemistry, Faculty of Science, University of Dhaka, Bangladesh* (1991).

**Ph.D. Thesis Title:** Molecular reaction dynamics of oxygen and sulfur atoms in the singlet excited states, *Laboratory of Molecular Photochemistry, Graduate School of Environmental Earth Sciences, Hokkaido University, Japan* (1996).

### **II. Research Papers:**

1. O(<sup>3</sup>P<sub>j</sub>) atom formation from photodissociation of ozone in the visible and ultraviolet region, **Sayed Mohammed Shamsuddin**, Yousuke Inagaki, Yutaka Matsumi and Masahiro Kawasaki, *Can. J. Chem.* **72**, p.637-642 (1994).
2. Dynamics of the reaction S(<sup>1</sup>D) + HD, H<sub>2</sub> and D<sub>2</sub>: Isotopic branching ratios and translational energy release, Yousuke Inagaki, **Sayed Mohammed Shamsuddin**, Yutaka Matsumi and Masahiro Kawasaki, *Laser Chem.* **14**, p.235-244 (1994).
3. Laser-induced fluorescence detection of ClO radicals at 167- 180 nm, Yutaka Matsumi, **Sayed Mohammed Shamsuddin** and Masahiro Kawasaki, *J. Chem. Phys.* **101** (9), p.8262-8263 (1994).
4. Velocity relaxation of hot O(<sup>1</sup>D) atoms by collisions with rare gases, N<sub>2</sub> and O<sub>2</sub>, Yutaka Matsumi, **Sayed Mohammed Shamsuddin**, Yoshihiro Sato and Masahiro Kawasaki, *J. Chem. Phys.* **101** (11), p.9610-9618 (1994).
5. Vibrational and rotational energy distribution of ClO produced in reactions of O(<sup>1</sup>D) atoms with HCl, CCl<sub>4</sub> and chlorofluoromethanes, Yutaka Matsumi and **Sayed Mohammed Shamsuddin**, *J. Chem. Phys.* **103** (11), p.4490-4495 (1995).
6. Comparative study of biogas production from organic waste mixed with poultry droppings, S. S. M. A. Khorasani, Md. A. Quaiyyum, **S. M. Shamsuddin**, Md. Kabirul Islam and Md. Nazmul Hossain. *J. Asiat. Soc. Bangladesh, Sci.* **26** (2), p.265-270 (2000).
7. The nature of the mixed diorganomagnesium cuprate: addition of RR'CuMgX to methyl cinnamate, **S. M. Shamsuddin**, M.T. Rahman, Md. Abdul Quaiyyum and Mizanur Rahman, *J. Bang. Chem. Soc.* **14** (1), p.101-107 (2001).
8. The nature of the reagent prepared by mixing [2PhMgBr + CuI] with [2MeMgI + CuI] in ether: A chemical approach, Husna Parvin Nur, **S. M. Shamsuddin** and M. T. Rahman, *Bangladesh J. Sci. Ind. Res.* **39** (1-2), p.27-32 (2004).
9. Characterization of 1,4 – addition product from the reaction between methylphenylmagnesium reagent with methyl cinnamate, **S. M. Shamsuddin**, A. Quaiyyum, B. Hossain, M. M. Rahman and N. H. Bhuiyan, *Bangladesh J. Sci. Ind. Res.* **39**(3-4), p.248-252, (2004).
10. Phenol removal from aqueous system by adsorbents, Farzana Ferdoush, **S. M. Shamsuddin** and Ahmad Ismail Mustafa, *Dhaka Univ. J. Sci.* **53** (1), p.105-110 (2005).
11. Kinetics of the NH reaction with H<sub>2</sub> and reassessment of HNO formation from NH + CO<sub>2</sub>, H<sub>2</sub>O, Arthur Fontijn, **Sayed M. Shamsuddin**, Duane A. Crammond, Paul Marshall and William R. Anderson, *Combust. Flame*, **145**(3), p.543-551, (2006).

12. Dynamics of the reaction  $C(^1D) + HD, H_2$  and  $D_2$ : Isotopic branching ratios and translational energy release, **S. M. Shamsuddin** and A.M. Sarwaruddin Chowdhury, *Dhaka Univ. J. Sci.* **55**(1), p. 119-122, (2007).
13. Development of non-alcoholic, carbonated health drink for athletes in Bangladesh, Bellal Hossain, M. A. Babu, A. K. Obidul Huq, Marufa Hossain, Muazzem Hossain, Md. Nizamul Hoque Bhuiyan, and **S. M. Shamsuddin**, *Dhaka Univ. J. Sci.* **55**(1), p. 123-128, (2007).
14. Effects of thermokinetics and mass changes on biscuit properties baking in PLC gas tunnel oven, **S. M. Shamsuddin**, Bellal Hossain, Muazzem Hossain, A. K. Obidul Huq, Z. Rahman, Md. Nizamul Hoque Bhuiyan and M. A. Babu, *Dhaka Univ. J. Sci.* **55**(2), p. 243 -247, (2007).
15. Synthesis of silylium salt and its application to Aldol reaction as a catalyst, Md. Mizanur Rahman and **S. M. Shamsuddin**, *SUST Studies*, **8**(2), p. 94-96, (2007).
16. Status of some essential and toxic elements in different varieties of market rice in Bangladesh, **Sayed M. Shamsuddin**, Gazi Nurun Nahar Sultana, Luba Shabnam and Amir H. Khan, *Dhaka Univ. J. Sci.* **57**(1), p. 93 -96, (2009).
17. Characterization of plant and animal based natural fibers reinforced polypropylene composites and their comparative studies, Quazi T.H. Shubhra, A. K. M. M. Alam, M. A. Gafur, **Sayed M. Shamsuddin**, Mubarak A. Khan, M. Saha, Dipti Saha, M. A. Quaiyyum, Jahangir A. Khan, Md. Ashaduzzaman, *Fibers and Polymers.* **11**(5), p. 725-731, (2010).
18. A new approach for the preparation of chitosan from  $\gamma$ - irradiation of prawn shell: effects of radiation on the characteristics of chitosan, Taslim Ur Rashid, Mohammed Mizanur Rahman, Shahriar Kabir, **Sayed M. Shamsuddin**, Mubarak A. Khan, *Polymint.* **61**, p. 1302-1308, (2012).
19. Evaluation of fat binding capacity of gamma irradiated chitosan extracted from prawn shell, Taslim Ur Rashid, **Sayed M. Shamsuddin**, Mubarak A. Khan, and Mohammed Mizanur Rahman, *Soft Materials*, **12**(3), 262-267, (2014).
20. Preparation, characterization and performance evaluation of chitosan as an adsorbent for Remazol red, Shaikat Chandra Dey, Mohammad Al-Amin, Taslim Ur Rashid, Md. Zakir Sultan, Md. Ashaduzzaman, Mithun Sarker and **Sayed Md. Shamsuddin**, *International Journal of Latest Research in Engineering and Technology (IJLRET)*, ISSN: 2454-5031, www.ijlret.com, Volume 2 Issue 2, February 2016, PP 52-62.
21. Solar assisted photocatalytic degradation of reactive azo dyes in presence of anatase titanium dioxide, Mohammad Al Amin, Shaikat Chandra Dey, Taslim Ur Rashid, Md. Ashaduzzaman and **Sayed Md. Shamsuddin**, *International Journal of Latest Research in Engineering and Technology (IJLRET)*, ISSN: 2454-5031, www.ijlret.com, Volume 2 Issue 3, March 2016, PP 14-21.
22. pH Induced Fabrication of Kaolinite-Chitosan Biocomposite, Shaikat Chandra Dey, Mohammad Al-Amin, Taslim Ur Rashid, Md. Ashaduzzaman, **Sayed Md. Shamsuddin**, *International Letters of Chemistry, Physics and Astronomy*, ISSN: 2299-3843, doi: 10.18052, www.scipress.com/ILCPA.68.1, Vol. 68, pp 1-9 , (2016).
23. Studies on Interaction of Lidocaine Drug with Natural Cellulosic Fibres, Md. Ashaduzzaman, Abdullah Al-Rafin, Nusrat Mustary, **Sayed Md. Shamsuddin**, *International Journal of Pharmacology, Phytochemistry and Ethnomedicine*, ISSN: 2297-6922, doi:10.18052, www.scipress.com/IJPPE.4.36, Vol. 4, pp 36-46, (2016).
24. Cephadrine Intercalated Mg-Al Layered Double Hydroxide, Md. Ashaduzzaman, Nashid Kaisher Riyadh, Nusrat Mustary, **Sayed Md. Shamsuddin**, *International Letters of Chemistry, Physics and Astronomy*, ISSN: 2299-3843, doi:10.1805, www.scipress.com/ILCPA.69.1, Vol. 69, pp 1-9 (2016).
25. pH Controlled Reversible Interaction of Remazol Orange with Chitin, Muhammad Mominur Rahman, Abdullah Muhammad Zakaria, Shaikat Chandra Dey, Md. Ashaduzzaman, **Sayed**

- Md. Shamsuddin**, International Letters of Chemistry, Physics and Astronomy, ISSN: 2299-3843, doi: 10.18052, www.scipress.com/ILCPA.75.25, Vol. 75, pp. 25-36, (2017).
26. pH-Triggered Interfacial Interaction of Kaolinite/Chitosan Nanocomposites with Anionic Azo Dye, Shaikat Chandra Dey, Mokrema Moztahida, Mithun Sarker, Md. Ashaduzzaman and **Sayed Md. Shamsuddin**, J. Compos. Sci. **2019**, 3, 39; doi:10.3390/jcs3020039
  27. Fabrication of Nanostructured Kaolinite Doped Composite Films from Silicone Rubber with Enhanced Properties, Abdullah Muhammad Zakaria, Shaikat Chandra Dey, Muhammad Mominur Rahman, Mithun Sarker, Md. Ashaduzzaman and **Sayed Md. Shamsuddin**, J. Compos. Sci. 2019, 3, 50; doi:10.3390/jcs3020050
  28. Dual cocatalysts induced photocurrent enhancement of LaTiO<sub>2</sub>N photoanode. Md. Abdulla-Al-Mamun, Mohammad Mizanur Rahman and **Sayed M. Shamsuddin**, Materials Letters, 245, 147-150, 2019; <https://doi.org/10.1016/j.matlet.2019.03.003>.
  29. Kaolinite/TiO<sub>2</sub>/ZnO Based Novel Ternary Composite for Photocatalytic Degradation of Azo Dyes. A.K.M. Maksudul Hasan, Shaikat Chandra Dey, Muhammad Mominur Rahman, Abdullah Muhammad Zakaria, Mithun Sarker, Md. Ashaduzzaman, **Sayed M. Shamsuddin**, Bulletin of Materials Science, 43, 27 2020.
  30. Removal of Chromium (III) and Other Physical Parameters from Chrome Tan Wastewater and Recovery of Chromium from the Precipitating Sludge. Md. Minhaz Uddin, Md. Jawad Hasan, Md Didarul Islam, Ashiqur Rahaman, **Sayed Md. Shamsuddin**; TLR 3(2), 64-77, 2020; DOI: 10.31881/TLR.2020.07.
  31. Application of silver-assisted laser desorption ionization ultrahigh-resolution mass spectrometry for the speciation of sulfur compounds. Thamina Acter, Nissa Nurfajrin Solihat, Sungjune Kim, Nizam Uddin Ahmad Ismail Mustafa, **Sayed Md. Shamsuddin** and Sunghwan Kim, Analytical and Bioanalytical Chemistry. 412, 243–255, 2020.
  32. Enhancement of antimicrobial properties of shoe lining leather using chitosan in leather finishing. Yead Mahmud, Nizam Uddin, Thamina Acter, Md. Minhaz Uddin, A.M. Sarwaruddin Chowdhury, Md. Latiful Bari, Ahmad Ismail Mustafa and **Sayed Md. Shamsuddin**, Advances in Materials Research, 9(3), 233-250, 2020 DOI: <https://doi.org/10.12989/amr.2020.9.3.233>.
  33. Deciphering the Role of Quaternary N in O<sub>2</sub> Reduction over Controlled N-Doped Carbon Catalysts. Enamul Haque, Ali Zavabeti, Nizam Uddin, Yichao Wang, Md. Arifur Rahim, Nitu Syed, Kai Xu, Azmira Jannat, Farjana Haque, Bao Yue Zhang, Mahbulul Alam Shoaib, **Sayed Shamsuddin**, Md Nurunnabi, Andrew I. Minett, Jian Zhen Ou, and Andrew T. Harris, Chem. Mater. 32(4), 1384-1392, 2020; <https://doi.org/10.1021/acs.chemmater.9b03354>.
  34. Quantifying Environmental Sustainability of Denim Garments Washing Factories through Effluent Analysis: A Case Study in Bangladesh. Md Shamsuzzaman, Md. Abul Kashem, Abu Sadat Muhammad Sayem, Adnan Maroof Khan, **Sayed Md. Shamsuddin**, Md Mazedul Islam, Journal of Cleaner Production. 290, 2021, 125740; <https://doi.org/10.1016/j.jclepro.2020.125740>
  35. Preparation of Activated Carbon/TiO<sub>2</sub> Nanohybrids for Photodegradation of Reactive Red-35 Dye Using Sunlight. Bappy Mondol, Anupam Sarker, A. M. Shareque, Shaikat Chandra Dey, Mohammad Tariqul Islam, Ajoy Kumar Das, **Sayed Md. Shamsuddin**, Md. Ashraful Islam Molla, and Mithun Sarker, Photochem. 1(1), 54-66, 2021; <https://doi.org/10.3390/photochem1010006>
  36. Facile synthesis of TiO<sub>2</sub>/Chitosan nanohybrid for adsorption-assisted rapid photodegradation of an azo dye in water. Tabassum Sultana, Shaikat Chandra Dey, Md. Ashraful Islam Molla, Mohammad Rahat Hossain, Muhammad Mominur Rahman, Md. Saiful Quddus, Mohammad Moniruzzaman, **Sayed Md. Shamsuddin** and Mithun Sarker, Reaction Kinetics Mechanisms and Catalysis. 133, 1121–1139, 2021; <https://doi.org/10.1007/s11144-021-02009-5>.

37. Comparative seasonal assessment of pollution and health risks associated with heavy metals in water, sediment and Fish of Buriganga and Turag River in Dhaka City, Bangladesh. M. N. Hossain, Ashiqur Rahaman, Md. Jawad Hasan, Md. Minhaz Uddin, Nazma Khatun and **Sayed Md. Shamsuddin**, SN Applied Sciences. 3, 509, 2021; <https://doi.org/10.1007/s42452-021-04464-0>.
38. A cleaner goatskin preservation with leaf paste and powder: An approach for salinity remediation in tannery wastewater. Md. Minhaz Uddin, Md. Jawad Hasan, Yead Mahmud, Nizam Uddin, Khandaker Tanzim Rahman, Imam Jafar Ali Nishad and **Sayed Md. Shamsuddin**, Cleaner Engineering and Technology, Volume 6, February 2022, 1003576.; <https://doi.org/10.1016/j.clet.2021.100357> (Received 24 April 2021; Received in revised form 13 November 2021; Accepted 4 December 2021, Available online 5 December 2021).
39. Fabrication of Novel Nanohybrid Material for the Removal of Azo Dyes from Wastewater. Mohammad Rahat Hossain, Taslim Ur Rashid, Nadira Parvin Lata, Shaikat Chandra Dey, Mithun Sarker and **Sayed Md. Shamsuddin**, J. Compos. Sci. 2022, 6(10), 304; <https://doi.org/10.3390/jcs6100304> (Received: 10 August 2022 / Revised: 28 September 2022 / Accepted: 30 September 2022 / Published: 11 October 2022).
40. Fabrication and synergistically enhanced photocatalytic activity of ternary kaolinite, TiO<sub>2</sub>, and Al<sub>2</sub>O<sub>3</sub> (K<sub>65</sub>T<sub>30</sub>A<sub>5</sub>) nanocomposite for visible-light-induced degradation of methylene blue and remazol red dye Nadira Parvin Lata, Md. Sheum Hussain, Md. Abdulla-Al-Mamun, Taslim Ur Rashid, Sayed Md. Shamsuddin, *Heliyon*. 2024, 10(8), e29255 <https://doi.org/10.1016/j.heliyon.2024.e29255> Received 18 March 2024; (Received in revised form 23 March 2024; Accepted 3 April 2024; Available online 7 April 2024).
41. Tailoring the performance of cellulosic textiles by chemical treatment and ionizing radiation: Assessment of physical, mechanical, thermal, crystal and morphological properties. N. Akter, S.C. Das, M.M. Fahad, D. Islam, M.A. Khan, **S.M. Shamsuddin**, Next Materials 7 (2025) 100372 <https://doi.org/10.1016/j.nxmte.2024.100372> (Received 10 July 2024; Received in revised form 26 August 2024; Accepted 9 September 2024; Available online 18 September 2024).

### **III. Presentation:**

1. Sayed Mohammed Shamsuddin, Yousuke Inagaki, Yutaka Matsumi, Masahiro Kawasaki, Makoto Abe and Shihou Shusuke, "Reaction dynamics of C(<sup>1</sup>D) with molecular hydrogen"; Annual Winter Conference, Chemical Society of Japan, Hokkaido Branch, 1B24, **Sapporo (February 1993)**.
2. Sayed Mohammed Shamsuddin, Yousuke Inagaki, Yutaka Matsumi and Masahiro Kawasaki, "Adiabaticity of predissociating potential surface in visible and uv photodissociation of O<sub>3</sub>"; 9th Symposium on Chemical Reaction, 1P05, **Kyoto (June 1993)**.
3. Zhen Song, Sayed Mohammed Shamsuddin, Masafumi Ohashi, Yutaka Matsumi and Masahiro Kawasaki, "Gas phase reactions of S(<sup>1</sup>D) generated from photochemical processes"; Annual Symposium on Photochemistry 1B132, **Sapporo (October 1993)**.
4. Yutaka Matsumi, Sayed Mohammed Shamsuddin and Masahiro Kawasaki, "Translational energy relaxation of high speed O(<sup>1</sup>D) by collisions with rare gases and N<sub>2</sub> "7th European Workshop on Molecular Spectroscopy and Photon-induced Dynamics, **Maratea, Italy (November 1993)**.
5. Yoshihiro Sato, Sayed Mohammed Shamsuddin, Yutaka Matsumi and Masahiro Kawasaki, "Velocity relaxation of high speed O(<sup>1</sup>D) by collisions "; Annual Winter Conference, Chemical Society of Japan, Hokkaido Branch, 1B26, **Sapporo (February 1994)**.

6. Sayed Mohammed Shamsuddin, Yutaka Matsumi and Masahiro Kawasaki, "VUV-LIF spectrum of ClO radical generated from the reactions of O(<sup>1</sup>D) and chlorine compounds"; 10th Symposium on Chemical Reaction, **Tokyo (May 1994)**.
7. Yutaka Matsumi, Sayed Mohammed Shamsuddin and Masahiro Kawasaki, "LIF detection and formation process of ClO radical"; Symposium on Molecular Structure and Dynamics, **Tokyo (September 1994)**.
8. A. M. Sarwaruddin Chowdhury, Sayed Mohammed Shamsuddin and Yutaka Matsumi, "Translational relaxation and electronic quenching of hot O(<sup>1</sup>D) by collisions with N<sub>2</sub>"; 11th Symposium on Chemical Reaction, 1P1-10, **Sapporo (May 1995)**.
9. Arthur Fontijn, Sayed M. Shamsuddin, Paul Marshall and William R. Anderson "Wide-Temperature Range Kinetics of the NH Reactions with H<sub>2</sub> and CO<sub>2</sub>", Eastern States Combustion Institute meeting, held on **Oct 26-29, 2003**.

**Membership of Professional Societies:**

1. Life Member, The Bangladesh Association for the Advancement of Science (BAAS), Membership No. LM-536(iv).
2. Life Member, Bangladesh Chemical Society (BCS), Membership No. LM-891.
3. Life Member, Japanese Universities Alumni Association in Bangladesh (JUAAB).