



Dr Abhirup Chatterjee, Ph D

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Respected Sir,

It was with great interest that I have gone through the portal of your esteemed organisation. Review of my credentials will confirm that I am capable of serving as a catalyst for achieving academic objectives and organisational growth through effective contributions.

I have been associated with various Institutes of international repute like DRDO DIPAS; MDNIY (AYUSH) in collaboration with DRDO; AIPAS Amity University; IIT Guwahati; VIT University Vellore; CIT Kokrajhar etc in different capacities with the vision of proficient enrichment of the Institute through direct promotion of, and admin support to, up-to-date envisioned teaching, competent sci-tech research and able collaboration to inspire students towards academic endeavours – emphasizing on dexterous research.

- ❑ Endeavouring Administrative Responsibilities (since 2006) with B Sc (Hons), M Sc and Ph D, in addition to Research (since 2004) and Teaching Assignments (since 2008).
- ❑ More than 15 years of experience in Basic & Applied Research in the area of Cognitive Sciences, Cognitive Task Analysis, Qualitative & Quantitative statistics and their application in Visual Ergonomics (w.r.t. Communication Design), Cognitive & Physical Ergonomics, Human Factors & Design Interventions (w.r.t. Industrial Design and Furniture / Space Design), Biomedical Signal Analyses, along with Teaching in these areas, Administration and Documentations etc.
- ❑ Investigator = One DRDO HQ Pilot Project ❑ Two Research Work on BSF and CFEES personnel. ❑ Co-Investigator = Two DIPAS Tasks to IAF ❑ One DRDO 11 FYP Project.
- ❑ Publication = 33 Full text (Journals & Proceedings) & 32 Abstracts (in Refereed Conf, Nat + Intl).
- ❑ I enjoy proven track record of participating in various research projects with real-time experience in planning, execution, and extraction, application of the methodologies, documentation & presentation of findings. Apart from this my administrative expertise comprise –
- ❑ Administrative Experience = Managing a collaborative Centre till its successful completion.
 - ⦿ Expertise in handling HR – their recruitment, training and development.
 - ⦿ R&D Admin matters.
 - ⦿ Budget formulation, forecast & management - yearly and Five Year Plan | UC & SOE as per GFR rules.
 - ⦿ Report – Technical, Interim & Scientific.
 - ⦿ Formulation of independent and collaborative S&T / R&D Projects.
- ❑ Administrative Experience = REO at CIT Kokrajhar.
 - ⦿ Guided promotion of competent Sci-Tech research with teaching Research Methodology.
 - ⦿ Expert acquaintance in handling Administrative Establishment and R&D Admin matters.
 - ⦿ Making rulebooks like R&D and Consultancy Project Manuals along with focus to IRG.

I have been a recipient of "Prof. C. R. Dasgupta Memorial Award" awarded by Prof. Achintya Kumar Mukherjee Memorial Committee on their 8th Annual Scientific Meet (2002) for securing 'Third in College' in B. Sc (H), University Examination in Physiology and also the National Scholarship for studying M.Sc. in Physiology (Certificate not yet received) by the Directorate of Education, Ministry of Human Resource Development, Govt. of India.

In addition, I offer excellent organizational skills, which have proven to be a critical asset in driving operations during the current associations. These qualities, combined with my dedication and tireless work ethic, should enable me to make a positive impact at your organization.

Enclosed is a copy of my latest Curriculum Vitae as attachment for your review. I would welcome an opportunity to discuss your needs and objectives and the possibility of working together to meet them.

Heartfelt thanks for your time and consideration!

Yours sincerely,

Dr Abhirup Chatterjee



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<http://www.iitg.ac.in/erqlab/people.html#rs>
<https://scholar.google.com/citations?user=qo6-LIAAAAJ&hl=en>

A *Sincerity-Centred regular hexagon* of
Determination, **D**iscipline, **D**evotion, **D**ocility, **D**iligence and **D**ecorousness

PROFILE SNAPSHOT

I have been associated with various Institutes of international repute like DRDO DIPAS, MDNIY (AYUSH) in collaboration with DRDO, AIPAS Amity University, IIT Guwahati, VIT University Vellore, CIT Kokrajhar etc in different capacities with the vision of proficient enrichment of the Institute through promotion of up-to-date envisioned teaching, competent sci-tech research and able collaboration to inspire students towards academic endeavours – emphasizing on dexterous research.

- ❑ With B Sc (Hons), M Sc and Ph D, handling administrative responsibilities (since 2006), in addition to research (since 2004) and teaching (since 2008).
- ❑ **More than 15 years** of experience in Basic & Applied Research in the area of Cognitive Sciences, *Cognitive Task Analysis*, Qualitative & Quantitative statistics and their application in *Visual Ergonomics (w.r.t. Communication Design)*, *Cognitive & Physical Ergonomics*, *Human Factors & Design Interventions (w.r.t. Industrial Design and Furniture / Space Design)*, Biomedical Signal Analyses, *along with Teaching* in these areas, Administration and Documentations etc.
- ❑ Leading, mentoring & monitoring the performance of the group to ensure efficiency in meeting of individual & group targets.
- ❑ Detail oriented with an analytical bent of mind and a positive attitude for academic & applied research.
- ❑ Proven track record of participating in various research projects with real-time experience in planning, execution, and extraction, application of the methodologies, documentation & presentation of findings.
- ❑ Investigator = One DRDO HQ Pilot Project ● Two Research Work on BSF and CFEES personnel. ❑ Co-Investigator = Two DIPAS Tasks to IAF ● One DRDO 11 FYP Project.
- ❑ Publication = **33 Full text** (Journals & Proceedings, of which more than 20 in the area of Ergonomics, Human Factors & Design Intervention) & more than **30 Abstracts** (in Refereed Conf, Nat + Intl).
- ❑ Administrative Experience = Managing a collaborative Centre till its successful completion.

- ⊗ Expertise in handling HR – their recruitment, training and development.
- ⊗ R&D Admin matters.
- ⊗ Budget formulation, forecast & management - yearly and Five Year Plan | UC & SOE as per GFR rules.
- ⊗ Report – Technical, Interim & Scientific.
- ⊗ Formulation of independent and collaborative S&T / R&D Projects.
- ❑ Administrative Experience = REO at CIT Kokrajhar.
 - ⊗ Guided promotion of competent Sci-Tech research with teaching Research Methodology.
 - ⊗ Expert acquaintance in handling Administrative Establishment and R&D Admin matters.
 - ⊗ Making rulebooks like R&D and Consultancy Project Manuals with focus to IRG.

CORE PROFICIENCIES

- ❑ **Research and Development:** Development, standardisation and validation of methods to ensure quality in terms of precision, accuracy and reproducibility. High-end basic / academic and user-oriented research in Ergonomics / Human Factors Engg / Design Intervention (concept / idea / methods etc) – Maintaining scientific excellence and creating intellectual property.
- ❑ **Project Design, Planning & Execution:** Finalizing requirements and specifications. Evaluating project progress on regular basis. Monitoring the project to meet the committed timelines and productivity commitments.
- ❑ **Design / Process Management:** Mapping user's requirements & coordinating in developing, implementing designs in line with the criteria specified by the user & the guidelines set by concerned authorities / regulatory organizations.
- ❑ **Documentation / Quality Compliance:** Resultant of working in a GLP lab in a then ISO 9001:2008 Institute, ensuring compliance of various quality measures by maintenance of appropriate requisite documentation / records.

CAREER SKETCH

- ◆ **December 2020 – Till Date** [*Freelance Sci-Tech R&D Advisor / Narrator / Communicator, Kolkata (Suburbs), WB-IN*]
 - ❑ Freelance promotion / augmentation of Research & Development and Teaching.
 - ❑ Academic & Subject Matter Expert contribution to course structure (Ergonomics & Human Factors) for B Des & M Des students of VIT School of Design (V-SIGN), VIT University Vellore.

- ◆ **December 2017 – December 2020** [Research Establishment Officer (REO) in Central Institute of Technology Kokrajhar (CITK), A Deemed-to-be-University CFTI under MHRD, GoI, BTAD AS-IN]

 - ❑ Promotion and augmentation of Research & Development, Admin and Teaching.
 - ❑ Proposal, approval & formation of Intellectual Property Rights (IPR) Cell for CITK.
 - ❑ Management of NIRF ranking process for CITK.
 - ❑ Proposal, approval and formation of International and Interdisciplinary Collaborative Research Cell in CITK,
 - ❑ Guiding Ph D and other Students for Creativity and Innovation, Ergonomics and Design Interventions.
 - ❑ Teaching Research Methodology for Ph D.
 - ❑ Experience and expertise in recruitment as per GoI rules & regulations with knowledge of reservation perspectives.
 - ❑ Guest Lecture to B Des & M Des students of VIT School of Design (V-SIGN), VIT University Vellore.
 - ❑ Academic & Subject Matter Expert contribution to course structure (Ergonomics & Human Factors) for B Des & M Des students of VIT School of Design (V-SIGN), VIT University Vellore.

- ◆ **September 2014 – September 2017** [Institute Post-Doctoral Fellow (IPDF) in Department of Design, Indian Institute of Technology Guwahati (DoD-IITG), AS-IN]

 - ❑ Research, Teaching and Research Admin.
 - ❑ Organized an International Conference of Ergonomics – HWWE 2014 during Dec 03 – 05, 2014.
 - ❑ Published the Proceedings of the conference as one Editor, apart from one review article therein.
 - ❑ Guided various levels of students & interns yielding about **24** publications in Ergonomics, Human Factors and Design from Ergonomics lab, DoD-IITG.

- ◆ **July 2013 – September 2014** [Visiting Faculty at Amity Institute of Physiology and Allied Sciences (AIPAS), Amity University – Noida Campus, UP-IN]

 - ❑ Teaching Medical Physiology (Ergonomics etc) for B Sc and M Sc courses.
 - ❑ Developed a new elective course 'Applied Electrophysiology M Sc'.
 - ❑ Paper setter for B Sc and M Sc courses and other admin duties.

- ◆ **January 2009 – September 2012** [Research Officer (Program Coordinator) in a Centre called CARTY set up at DIPAS (DRDO, M/o Defence, DL-IN) in collaboration with MDNIY (M/o AYUSH, DL-IN)]

- ❑ User-oriented (mainly tri forces of National Defence Services viz. Indian Army, Indian Air Forces and Indian Navy) Applied R&D with the goal of holistic performance improvement – Cognitive, Sensory-Motor, Psychophysiological and Physical through Ergonomics / Design Intervention and other means.
- ❑ Planning and strategy meetings along with research heads for own research contribution and research teams – Formulation of independent and collaborative R&D Projects.
- ❑ Managing HR - maintained 6 staff in CARTY till Sep, 2012 without any discontinuity or change.
- ❑ Budget formulation, forecast & management.
- ❑ Report - Technical, Interim & Scientific.
- ❑ Arranging / conducting meetings and Walk-in-Interviews.
- ❑ Teaching Physiology for M Sc (Biomedical Sciences) at ACBR, DU.

◆ **November 2006 – December 2008** [Senior Research Fellow (DRDO-SRF) at DIPAS, DRDO, Delhi]

- ❑ Basic and applied research (Work plan & design ● Data analysis ● Technical and Interim Report preparation).
- ❑ Budget forecast ● Stores Procurement / Handling.
- ❑ Submitted Thesis for Ph D in Physiology in August 2008 to Bharathiar University, Coimbatore TN.

◆ **November 2004 – November 2006** [Junior Research Fellow (DRDO-JRF) at DIPAS, DRDO, Delhi]

- ❑ Basic and applied research (Work plan & design ● Data analysis ● Technical and Interim Report preparation).
- ❑ Budget forecast ● Stores Procurement / Handling.
- ❑ Registered for Ph D in PHYSIOLOGY in August 2005 with Bharathiar University, Coimbatore TN.

RESEARCH & REVIEW PUBLICATIONS – JOURNAL / CONFERENCE / BOOK CHAPTERS

- 1 Kumar S, Chatterjee A, Karmakar S. Impact of Exposure to the High Noise Level on Occupational Health of the Weavers Engaged in Handloom Sectors in India: A Case Study from Bargarh District. *In: M. Muzammil et al. (eds.), Ergonomics for Improved Productivity; Design Science and Innovation. Springer Nature, Singapore; pp 327-333. 2021.*
- 2 Bora S, Chatterjee A, Chakrabarti D. A Scrutiny of On-Job Stress and Occupational Well-Being of Indian Policewomen Compared to Chinese Policewomen. *In: M.*

- Muzammil et al. (eds.), *Ergonomics for Improved Productivity; Design Science and Innovation*. Springer Nature, Singapore; pp 721-729. **2021**.
- 3** Kharkongor WB, Chatterjee A, Chakrabarti D. Application of Existing Cultural Frameworks in the Design of a Cultural Place: A Case Study of Meghalaya. *In: Chakrabarti A. (ed) Research into Design for a Connected World. Smart Innovation, Systems and Technologies*, vol 134, Springer, Singapore, pp 793-805; **2019**.
 - 4** Kharkongor WB, Chatterjee A, Chakrabarti D. Meghalaya Tourism: A Study on Women's Attitudes and Perceptions towards the Cultural Exposure and Interaction in the Context of Meghalaya Tourism. *In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)*. IEA 2018. *Advances in Intelligent Systems and Computing*, vol 826. Springer, Cham, pp 313-326; **2018**.
 - 5** Bora S, Chakrabarti D, Chatterjee A. Occupational Well-Being of Policewomen in India and China: Scope of Ergonomic Design Interventions. *In: Bagnara S., Tartaglia R., Albolino S., Alexander T., Fujita Y. (eds) Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)*. IEA 2018. *Advances in Intelligent Systems and Computing*, vol 826. Springer, Cham, pp 233-244; **2018**.
 - 6** Chatterjee A, Ray K, Panjwani U, Anand JP, Thakur L, Kumar S, Chakrabarti D. Meditation as a countermeasure to reduce cognitive decline after total sleep deprivation. *In: Ray GG et al (Eds): Ergonomics in Caring for People*, Springer Nature, Singapore. Chapter 37, pp 299-312; **2017**.
 - 7** Panda SK, Chatterjee A, Chakrabarti D. Designing a continuously variable transmission mechanism for economy cars in India. *In: Ray GG et al (Eds): Ergonomics in Caring for People*, Springer Nature, Singapore. Chapter 25, pp 201-208; **2017**.
 - 8** Bora S, Chatterjee A, Chakrabarti D. Workspace Amenities for Assamese Policewomen: Ergonomic Interventions. *In: Ray GG et al (Eds): Ergonomics in Caring for People*, Springer Nature, Singapore. Chapter 20, pp 153-161; **2017**.
 - 9** Nath S, Kalita T, Chatterjee A, Tiwari R, Karmakar S. Occupation imposed postural discomfort among the stone polishing workers from Guwahati, Assam: A systematic ergonomic evaluation. *The Japanese Journal of Ergonomics* **2017**; **53**(Suppl 2): S438-S441.
 - 10** Bora S, Chatterjee A, Chakrabarti D. An Ergonomic Interventional Approach to Improve Office Workspace for Policewomen in Assam, India. *In: Goossens RHM (Ed.): Advances in Social & Occupational Ergonomics, Advances in Intelligent Systems and Computing* 605; Springer International Publishing, AG; pp 318-325. **2017**.

- 11** Patel T, Sanjog J, Chatterjee A, Shroff A, Prusty SS, Mohapatra S, Karmakar S (2017). Virtual Ergonomics Evaluation of a Design Concept of Manual Powered Portable Paddy Thresher Suitable for Hilly Region Agriculture. *In: Chakrabarti A and Chakrabarti D (Eds.): Research into Design for Communities, Vol 1, Smart Innovation, Systems and Technologies 65.* Springer Nature, Singapore; pp 503-512. **2017**.
- 12** Bora S, Chatterjee A, Karmakar S, Chakrabarti D. Implementation of Ergonomic Design Interventions to Improve Workplace Amenities for Assam Policewomen. *In: Chakrabarti A and Chakrabarti D (Eds.): Research into Design for Communities, Vol 1, Smart Innovation, Systems and Technologies 65.* Springer Nature, Singapore; pp 219-229. **2017**.
- 13** Bora S, Chatterjee A, Chakrabarti D. Perceived Occupational Wellbeing of Policewomen after Ergonomic Design Intervention. *In: Singh LP et al (Eds): 'Proceedings of 14th International Conference on Humanizing Work & Work Environment HWWE 2016,* NIT Jalandhar, India; pp 24-26. **2016**.
- 14** Bora S, Chatterjee A, Rani P, Chakrabarti D. On-the-Job Stress: Interventions to Improve the Occupational Well-being of Policewomen in Assam, India. *Journal of International Women's Studies* **2016; 18** (1): 73-86.
- 15** Patel T, Sanjog J, Chatterjee A, Karmakar S. Statistical Interpretation of Collected Anthropometric Data of Agricultural Workers from Northeast India and Comparison with National and International Databases. *IIE Transactions on Occupational Ergonomics and Human Factors* 2016; **4**(4): 197-210.
- 16** Halder K, Pathak A, Tomer OS, Chatterjee A, Saha M. Physical and physiological comparison between Indian female college basketball players and sedentary students. *Advances in Applied Physiology* **2016; 1**(2): 18-23.
- 17** Patel T, Sanjog J, Chatterjee A, Karmakar S. Agricultural Scenario and Paddy Threshing in Rural North East India: Ergonomics Perspective. Proceedings of the National seminar on 'make in India and Rural North-East: The Challenges' organised by NIRD&PR-NERC, Guwahati. **2016**.
- 18** Kalwar K, Chatterjee A, Kumar P, Buragohain S, Chakrabarti D. Ergonomic and Architectural Facilitation to Boost Buddhist Circuit Tourism in Assam. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility',* IDC, IIT Bombay & NITIE, Mumbai, India; pp 603-608. **2016**.
- 19** Kumar P, Chatterjee A, Buragohain S, Kalwar K, Chakrabarti D. Buddhist Architecture manifestations in Eco-Leisure Gardens. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work*

- & Work Environment **HWWE 2015** & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 597-602. **2016**.
- 20** Buragohain S, Chatterjee A, Kalwar K, Kumar P, Chakrabarti D. A Multi-Facility Tourist and Spiritual Recreation Centre Promoting Buddhism in Assam. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 591-596. 2016.*
- 21** Nair V, Gahatraj A, Chatterjee A, Chakrabarti D. Trust-building of patients' relatives through an Android app-based patient information tool. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 326-331. 2016.*
- 22** Borsaikia S, Chatterjee A, Chakrabarti D. Ergonomics in facilitation of product design by Northeastern local people: Influence on tourism. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 290-299. 2016.*
- 23** Bordoloi A, Chatterjee A. Need for ergonomic intervention on academic environment of Assam: A district level analysis of primary schools. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 230-236. 2016.*
- 24** Panda SK, Chatterjee A, Panda M, Chakrabarti D. Continuously variable transmission for Indian Bicycles. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 204-209. 2016.*
- 25** Pachal T, Chatterjee A Chakrabarti D. Concept exploration for open-view small SAFARI Vehicle with revolving seat set-up. *In: Ray GG and Iqbal R (Eds): 'Caring for People – Proceedings of International Conference on Humanizing Work & Work Environment HWWE 2015 & Community Nutrition & Health: A Social Responsibility', IDC, IIT Bombay & NITIE, Mumbai, India; pp 192-197. 2016.*
- 26** Halder K, Chatterjee A, Pal R, Tomer OS, Saha M. Improvement in Ventilatory Function through Yogic Practices. Age related differences of selected Hatha yoga practices on anthropometric characteristics, muscular strength and flexibility of healthy individuals. *International Journal of Yoga 2015; 8: 37-46.*

- 27 Chatterjee A, Chakrabarti D. 'Occupational Cognition – Concerns and Health Aspects of Academic Stress with Special Reference to Day-to-Day Cognitive Performance'. *In: Chakrabarti D et al (Eds): 'User Centered Design and Occupational Wellbeing – Proceedings of International Ergonomics Conference **HWWE 2014**', McGraw Hill Education (Prof), New Delhi, India; pp 783-790. 2014.*
- 28 Pal R, Singh SN, Chatterjee A, Saha M. Age-related changes in cardiovascular system, autonomic functions, and levels of BDNF of healthy active males: role of yogic practice. *Age* 2014; 36(4):9683. doi: 10.1007/s11357-014-9683-7. Epub 2014 Jul 11.
- 29 Pal R, Saha M, Chatterjee A, Halder K, Tomer OS, Pathak A, Basavaraddi IV. Anaerobic power, muscle strength and physiological changes in physically active men following yogic practice. *Biomedical Human Kinetics* 2013; 5: 113 – 120.
- 30 Chatterjee A, Ray K, Panjwani U, Thakur L, Anand JP. Meditation as an Intervention for Cognitive Disturbances Following Total Sleep Deprivation. *Indian Journal of Medical Research* 2012; 136 (6): 1031-1038.
- 31 Ray K, Chatterjee A, Panjwani U, Kumar S, Sahu S, Ghosh S, Thakur L, Anand JP. Modafinil improves event related potentials P300 and contingent negative variation after 24 h sleep deprivation. *Life Sciences* 2012; 91 (3-4): 94-99.
- 32 Halder K, Chatterjee A, Tomer OS, Kain TC, Pal R, Saha M. Improvement in Ventilatory Function through Yogic Practices. *Al Ameen Journal of Medical Sciences* 2012; 5(2): 197-202.
- 33 Panjwani U, Ray K, Chatterjee A, Bhaumik S, Kumar S. Electrophysiological correlates of cognition improve with nap during sleep deprivation. *European Journal of Applied Physiology* 2010; 108 (3): 549 – 556.

CONFERENCES, SEMINARS & WORKSHOPS (N: National / I: International)

- 1 N 14th Annual Conference of the Physiological Society of India (PSI), organized by Dept. of Physiology, Serampore College during Nov 15 - 16, 2002.
- 2 N National Seminar on Recent Advances in Stress Physiology, Toxicology & Immunology, organized by the University of Kalyani during Nov 27 - 28, 2003.
- 3 I 2nd Interim Congress of World Federation of Sleep Research and Sleep Medicine Societies (WFSRSMS), organized by Dept. of Physiology, AIIMS during Sep 22 - 26, 2005.
- 4 N SLEEPCON 2005 - National Conference cum Workshop on Sleep Disorders, organized by Dept. of Pulmonary, Critical Care and Sleep Medicine, Vardhaman Mahavir Medical College and Safdarjung Hospital during Dec 07 - 11, 2005.

- 5 **I** **Course-cum-Workshop on Polysomnography and Related Procedures**, organized by Indian Sleep Disorders Association (**ISDA**) in collaboration with Tyco Healthcare during Feb 10 - 11, 2006.
- 6 **N** **18th Annual Conference** of the Physiological Society of India (**PSI**), organized by Dept. of Physiology, Presidency College during Dec 08 - 10, 2006.
- 7 **I** **3rd NBRC International Conference** organized by National Brain Research Centre (NBRC) during Dec 13 - 15, 2006.
- 8 **N** **4th Congress** of Federation of Indian Physiological Societies (**FIPS**), organized by Defence Institute of Physiology & Allied Sciences (DIPAS) during Jan 11 - 13, 2007.
- 9 **N** **19th Annual Conference** of the Physiological Society of India (**PSI**), organized by MREI, Faridabad during Dec 06 - 08, 2007.
- 10 **N** **DST sponsored National Sleep Medicine Course (NSMC 2007)** organized by NIMHANS, Bangalore during December 14 - 15, 2007.
- 11 **N** **3rd National Conference** of Indian Society for Sleep Research (**ISSR 2007**) organized by NIMHANS, Bangalore on December 16, 2007.
- 12 **N** **Symposium on Applications of PET-CT and Cyclotron**, organized by Institute of Nuclear Medicine & Allied Sciences (INMAS) during February 23 - 24, 2008.
- 13 **I** **International Symposium on Brain, Behavior and Cognition**, organized by Centre for Linguistics, Jawaharlal Nehru University (JNU) during Mar 14 & 15, 2008.
- 14 **N** **National Workshop** on Scanning Electron Microscopy, organized by University Science Instrumentation Centre, Burdwan University during Apr 08 - 11, 2008.
- 15 **N** **National Yoga Week 2009** on Role of Yoga in School Health, organized by Morarji Desai national Institute of Yoga (MDNIY) during Feb 16 - 22, 2009.
- 16 **N** **Symposium on Environmental Stress and Human Performance**, organized by Defence Institute of Physiology & Allied Sciences (DIPAS) under the aegis of SSSI during Jan 16, 2010.
- 17 **N** **National Yoga Week 2010** on Yoga in Lifestyle Related Disorders, organized by Morarji Desai national Institute of Yoga (MDNIY) during Feb 12 - 18, 2010.
- 18 **N** **National Workshop-cum-Seminar** on Role of Yoga in Prevention and Management of Hypertension organized by ACYTER and Dept. of Physiology, JIPMER in collaboration with MDNIY during Mar 18 - 19, 2010.
- 19 **N** **National Yoga Week 2011** on Yoga in Lifestyle Related Disorders, organized by Morarji Desai national Institute of Yoga (MDNIY) during Feb 12 - 18, 2011.

- 20 **I** **5th SIR Conference and Meditation Retreat** organized by BrahmaKumaris Spiritual Applications Research Centre (BK SpARC), Mt Abu (RJ) during Sep 25, 2011.
- 21 **I** **Pre-'IAN 2011' International symposium on 'Recent Trends in Neurosciences'** organized by Defence Institute of Physiology & Allied Sciences (DIPAS) on Oct 30, 2011.
- 22 **N** **29th Annual Conference** of Indian Academy of Neurosciences (IAN) organized by Defence Institute of Physiology & Allied Sciences (DIPAS) during Oct 30 – Nov 01, 2011.
- 23 **I** **International symposium on 'Systems Biology in Physiology / Medicine'** under APPICON 2011 organized by Depts. of Physiology & Pharmacology, AIIMS during Dec 13, 2011.
- 24 **I** **Pre-Conference Workshops on 'Understanding Physiology and Pharmacology of Cardiovascular Diseases (WS-3)' and 'Quantitative EEG: A Tool to Assess Cognitive Functions (WS-5)'** under APPICON 2011 organized by Depts. of Physiology & Pharmacology, AIIMS during Dec 14, 2011.
- 25 **I** **57th Annual Conference (APPICON 2011)** of Association of Physiologists & Pharmacologists of India (**APPI**) organized by Depts. of Physiology & Pharmacology, AIIMS during Dec 15 – 17, 2011.
- 26 **N** **National Yoga Week 2012** on Yoga for Holistic Personality Development, organized by Morarji Desai national Institute of Yoga (MDNIY) during Feb 12 – 18, 2012.
- 27 **I** **International Conference on Frontiers in Biological Researches (IFCBR – 2012)**, organized by Dept. of Human Physiology with Community Health, Vidyasagar University during Feb 26 - 27, 2012.
- 28 **I** **Pre-Conference Workshop (International Ergonomics Conference – HWWE 2014)** organized by Dept. of Design, IIT Guwahati during Dec 01 – 02, 2014.
- 29 **I** **International Ergonomics Conference – HWWE 2014** of the Indian Society of Ergonomics (**ISE**) organized by Dept. of Design, IIT Guwahati during Dec – 05, 2014.
- 30 **N** **PHYSICON–2014: The XXVITH Annual National Conference** of the Physiological Society of India (**PSI**) organised by Berhampore Girls' College, West Bengal during Dec 19 – 21, 2014.
- 31 **I** **International Ergonomics Conference – HWWE 2015** of the Indian Society of Ergonomics (**ISE**) organized by Industrial design Centre, IIT Bombay during Dec 07 – 09, 2015.
- 32 **N** **XXVIIth Annual Conference** of the Physiological Society of India (**PSI**) AND **VIth Congress** of the Federation of Indian Physiological Societies (**FIPS**) organized

by Department of Physiology, University of Calcutta, Kolkata during December 18 – 20, 2015.

- 33** **I** **The Global Conference on Research in Human Factors and Ergonomics (GCEF 2022 - Human Factors and Ergonomics: Designing for People)** organized by R&R Knowledge Solutions, Sri Lanka. in association with Ajeenkya DY Patil University, India & MIT Academy of Engineering, India (Academic Partners) and Institute of Sports Science & Technology, India (Strategic Partner) during July 11 – 12, 2022.

PRESENTATIONS IN CONFERENCES (**N**: National / **I**: International)

➤ **Invited TALK**

- 1 **I** **Plenary Address** - '*Human Factors & Ergonomics – A Proven Practical Tool for User-Oriented Sustainable Design and Design Intervention*' in The Global Conference on Research in Human Factors and Ergonomics (GCEF 2022) during July 11 – 12, 2022.
- 2 **N** *Yoga for Holistic Cognitive Stress Management: A Scientific Perspective* at CIT Kokrajhar on June 21, 2016 during their celebration of International Yoga Day with UN.
- 3 **N** *Demo-cum-Training Workshop on 'How Meditation Helps in Stress Management'* with faculties and staff of CIT Kokrajhar on June 21, 2015 during their celebration of International Yoga Day with UN.
- 4 **N** *Ergonomic Design Aspects of a Yoga Practice Hall* in 27th Annual Conference of the Physiological Society of India (PSI) AND 6th Congress of the Federation of Indian Physiological Societies (FIPS) organized by Department of Physiology, University of Calcutta, Kolkata, 2015.
- 5 **N** *Ergonomic Design Aspects of a Meditation Practice Hall* in PHYSICON–2014.
- 6 **I** *Study on the Effect of Rajyoga Meditation on Physiological, Affective & Cognitive Functions (DIPAS Chapter)* in 5th SIR International Conference and Meditation Retreat organized by BK SpARC, Mt Abu (RJ), 2011.

➤ **Presented Posters entitled:**

- 7 **N** '*Electrophysiological Appraisal of Cognitive Disturbances due to Sleep Deprivation*' in 18th Annual Conference PSI, 2006.
- 8 **N** '*Neuropsychological Assessment of Cognitive Disturbances due to Sleep Deprivation*' in 4th Congress of FIPS, 2007.
- 9 **N** '*Improvement of Autonomic and Physiological Functions through Raja Yoga Meditation*' in 29th Annual Conference of IAN, 2011 (**Nominated** for **Prof S S Parmer Research Foundation Award** in IAN 2011).
- 10 **N** '*Meditation as an Intervention for Cognitive Disturbances Following Total Sleep Deprivation*' in 57th Annual Conference of APPI, 2011.

➤ **Presented Papers entitled:**

- 11 **N** *'Neuropsychological Analysis of Memory Deficit after Total Sleep Deprivation'* in 19th Annual Conference of PSI, 2007.
- 12 **N** *'Recovery Sleep Ameliorates Cognitive Deficit after Total Sleep Deprivation: A Neurophysiological Approach'* in 3rd National Conference of ISSR, 2007.
- 13 **N** *'Meditation Ameliorates Cognitive Decline due to Total Sleep Deprivation'* in 29th Annual Conference of IAN, 2011 (**Nominated** for **Tulsabai Somani Educational Trust Award** in IAN 2011).
- 14 **I** *'Improvement of Autonomic Stability in Terms of Heart Rate Variability and Valsalva after 12 Months of Yogic Practice'* in ICFBR – 2012.
- 15 **I** *'Occupational Cognition – Concerns and Health Aspects of Academic Stress with Special Reference to Day-to-Day Cognitive Performance'* in HWWE 2014.

➤ **Papers / Posters as Co-Author entitled:**

- 16 **I** *'Neurophysiological Functions Following Meditation Practice'* in 17th International Conference on Frontiers in Yoga Research and its Applications, organized by SVYASA, Bangalore during December 20 – 24, 2007.
- 17 **I** *'Role of Yogic Practice in the Improvement of Anaerobic Capacity of Individuals'* in 6th International Conference: Yoga research and Cultural Synthesis, organized by Kaivalyadhama, Lonavla during December 27 – 30, 2009.
- 18 **N** *'Yogic Practice Helps Improvement in Cardio Vascular Response on Sedentary Male Population'* in National Yoga Week on Yoga in Lifestyle Related Disorders, organized by MDNIY, New Delhi during February 12 – 18, 2010.
- 19 **N** *'Effect of Yoga on Lifestyle Related Disorders: A Therapeutic Approach'* in National Yoga Week on Yoga in Lifestyle Related Disorders, organized by MDNIY, New Delhi during February 12 – 18, 2010.
- 20 **N** *'Effect of Three Months Yogic Practice on Physiological Improvements of Combatants'* in National Symposium on Sports Physiology Today and Tomorrow, organized by Dept. of Physiology, J N Medical College (AMU), Aligarh on March 13, 2010.
- 21 **N** *'Improvement in Lung Function Through Yogic Practices'* in National Symposium on Sports Physiology Today and Tomorrow, organized by Dept. of Physiology, J N Medical College (AMU), Aligarh on March 13, 2010.
- 22 **N** *'Optimization of Sleep and Cognitive functions in stressful environments: Armed Force Perspective'* in 29th Annual Conference of IAN, 2011.
- 23 **N** *'Modafinil is an Effective Countermeasure to Reduce Cognitive Decline after Total Sleep Deprivation'* in 29th Annual Conference of IAN, 2011.

- 24 **I** 'Physiological Effect of Yogic Practices on Young Indian Students: A Comparative Approach' in 57th Annual Conference of APPI, 2011.
- 25 **I** 'Effect of Yoga on Diabetes Mellitus: A Therapeutic Approach' in 57th Annual Conference of APPI, 2011.
- 26 **I** 'Yoga for Combatants' in 57th Annual Conference of APPI, 2011.
- 27 **I** 'Effect of One Year Yogic Practice on Lung Function, Strength and Flexibility of Students' in ICFBR – 2012.
- 28 **I** 'Designing Mass Communication Tools: A Societal Approach for Environmental Awareness' in HWWE 2014.
- 29 **N** *Ergonomic Enrichment of the Working Condition of Assam Policewomen* in 27th Annual Conference of the Physiological Society of India (PSI) AND 6th Congress of the Federation of Indian Physiological Societies (FIPS) organized by Department of Physiology, University of Calcutta, Kolkata, 2015.
- 30 **I** *Low Illumination Level in Indian Handloom Sector leading to high mental work load: A case study from Bargarh District, Odisha* in 14th International Conference on Humanizing Work and Work Environment 2016 organized by Department of Industrial and Production Engg, Dr B R Ambedkar National Institute of Technology (BR-NIT), Jalandhar, 2016.
- 31 **I** *Perceived Occupational Wellbeing of Policewomen after Ergonomic Design Intervention* in 14th International Conference on Humanizing Work and Work Environment 2016 organized by Department of Industrial and Production Engg, Dr B R Ambedkar National Institute of Technology (BR-NIT), Jalandhar, 2016.
- 32 **I** *A comparative analysis of psycho-physical and socio-behavioral aspects of children across rural, semi urban, urban and metro areas with reference to new age media interfaces as a contributing factor* in 14th International Conference on Humanizing Work and Work Environment 2016 organized by Department of Industrial and Production Engg, Dr B R Ambedkar National Institute of Technology (BR-NIT), Jalandhar, 2016.
- 33 **I** *Workspace Design for Policewomen in Assam, India: Applications for Developing Countries* in ICEPCE 2017: 19th International Conference on Engineering Psychology and Cognitive Ergonomics organised by World Academy of Science, Engineering and Technology at Tokyo, Japan, 2017.

PROFESSIONAL ACHIEVEMENTS

- "Prof. C. R. Dasgupta Memorial Award" by Prof. Achintya Kumar Mukherjee Memorial Committee, 2002 → '3rd in College' in University Examination of B Sc (H) in Physiology, 2001.

- ❑ National Scholarship by the Directorate of Higher Education, Ministry of Human Resource Development, Govt. of India → studying M Sc in Physiology (Certificate not yet received).
- ❑ Research Fellowship by Defence Research & Development Organization (DRDO), Nov 2004 → doctoral research in DIPAS, DRDO.
- ❑ Institute Post-Doctoral Fellowship by IIT Guwahati, Sep 2014 → post-doctoral research (& teaching) in Department of Design, IIT Guwahati.

EXTRACURRICULAR ACCOMPLISHMENTS

- ❑ *Organizing Member of 6th International Conference on Research into Design (ICoRD '17)* by Dept. of Design, IIT Guwahati during January 09–11, 2017.
- ❑ *Organizing Member of Pre-Conference Workshop and International Ergonomics Conference – HWWE 2014* by Dept. of Design, IIT Guwahati during December 01 – 02 and 3 – 5, 2014.
- ❑ *Editorial Board Member* of the Proceedings of 'International Ergonomics Conference – HWWE 2014' entitled 'User Centred Design and Occupational Wellbeing', published by McGraw Hill Education, New Delhi, India [ISBN (13): 978-93-392-1970-3 / ISBN (10): 93-392-1970-8].
- ❑ 17 Field / Scientific Trials during Jan 2009 - Sep 30, 2012 [2 on BSF Personnel | 4 on CFEES Personnel | 2 on MDNIY Students | 2 on IAF Personnel at AFA Dundigal-AP and AFS Belgaum-KA each | 2 on Army Personnel at 22 Rajput Regiment Mhow-MP | 3 on BK Raja Yoga Meditators (in this I was the Investigator from DIPAS)], where I have set up my Field Lab myself and conducted the scientific experiments.
- ❑ *Set up the basic infrastructure facilities of the Centre for Advanced Research and Training in Yoga*; and arranged the Inauguration on March 26, 2009 (along with my team of the Centre, DIPAS). To grace this Inauguration Ceremony, I have also *organized a Full Day Workshop on 'Yogic Practices: its Role in Stress Management and Performance Improvement'* on the same day.
- ❑ As SRF in Neurophysiology Division, DIPAS, while pursuing PhD, I have actively participated in the *organization of a 'Training Course on Adaptation to Extreme Environment'* during March 24 – 28, 2008 at DIPAS as an active member.

MEMBERSHIP OF PROFESSIONAL BODIES

- ❑ Online Member of International Brain Research Organization (IBRO) and its member sites.
- ❑ Life Member of Physiological Society of India (PSI)
- ❑ Life Member of Indian Academy of Neurosciences (IAN)
- ❑ Life Member of Association of Physiologists & Pharmacologists of India (APPI)

SOFTWARE FORTE

Nicolet Bravo EEG & EP ◆ UltraSom Polysomnograph ◆ Eemagine EEG ◆ BioPac Polygraph & Acqknowledge ◆ Procomp Infiniti v.5.1 & Biograph Physiology Suite ◆ Conner's CPT – II v.5 ◆ CANTAB v.3 Cognitive Assessment System ◆ BESS EEG ◆ Intelligent Hearing System EABR ◆ Brain Train v.3 Cognitive Retraining Software ◆ SPSS 17.0, 20.0 & 22.0.

ACADEMIA

- ❑ **Ph D** from DIPAS, DRDO, Min of Defence (Bharathiar University, Coimbatore) – submitted in 2008 / awarded in 2010 ◆ Dissertation (Thesis) title 'SLEEP DEPRIVATION AND COGNITIVE PERFORMANCES: ROLE OF SOME INTERVENTIONS'.
- ❑ **M Sc (63.70 %)** from University College of Science & Technology (University of Calcutta) in 2003.
- ❑ **B Sc (with Honours, 62.00 %)** from Serampore College (University of Calcutta) in 2001.
- ❑ **12th in Science (Higher Secondary Exam, 72.90 %)** from Chinsurah Deshbandhu Memorial High School (West Bengal Council of Higher Secondary Education) in 1998.
- ❑ **10th (School Certificate Exam, 72.44 %)** from Patha Bhavana founded by Kaviguru Rabindranath Tagore (Visva Bharati University, Santiniketan), in 1996.

PERSONAL DETAILS

- Date of Birth** : 22ND December, 1979
- Permanent Address** : "USHASI" 29/169, Moti Bagan, P.S. & P.O. Chinsurah – 712101, Distt. Hooghly (WB-IN).
- Present Address (for Correspondence)** : Central Institute of Technology Kokrajhar, P.O. Rangalikhata (Balagaon) – 783370, Distt. Kokrajhar (BTAD/BTC, AS-IN).
- Languages Known** : English, Hindi & Bengali.

Total Experience of Dr Abhirup Chatterjee

Experience	From	To	Years	Months
<i>DRDO JRF</i>	Nov 2004	Nov 2006	2	0
<i>DRDO SRF</i>	Nov 2006	Dec 2008	2	2
<i>RO (PC) @ DRDO</i>	Jan 2009	Sep 2012	3	9
<i>VF Amity Univ</i>	Jul 2013	Sep 2014	1	3
<i>IPDF @ IITG</i>	Sep 2014	Sep 2017	3	0
<i>REO @ CITK</i>	Dec 2017	Dec 2020	3	1
<i>Freelance (R&D + T)</i>	Dec 2020	Till date	2	0
Total Years of Experience in Research, Teaching, Admin & allied			17 y	03 m
Duration of Ph D Dissertation Work: Aug '05 (Registration) to Aug '08 (Thesis Submission)			03 y	0 m
Experience Excluding Ph D			14 y	03 m

List of References supporting the Candidature of Dr Abhirup Chatterjee

Sl #	Name	Designation	Organization	Contact # (+91)	e-Mail ID
1.	Prof Debkumar Chakrabarti	Distinguished Professor	UPES School of Design, Dehradun, UA-IN.	9435342854	debkumarchakrabarti@gmail.com
2.	Prof S Saleem Ahmed	Professor, V-SIGN & Former Dean	VIT School of Design (V-SIGN), VIT University, Vellore, TN-IN.	8637617825	saleem.ahmed@vit.ac.in
3.	Prof Somnath Gangopadhyay	Professor	Occupational Ergonomics Lab, Dept of Physiology, University of Calcutta, WB-IN.	6290679479	ganguly1961@gmail.com
4.	Dr (Mrs) Usha Panjwani *	Scientist G & Associate Director	DIPAS DRDO, Ministry of Defence, Delhi, DL-IN.	9811307949	ushapanjwani6@gmail.com
5.	Prof Dhurjati Majumdar	Professor of Practice	Dept of Human-Centred Design, IIT Delhi, DL-IN.	9811402302	majum55@gmail.com

* **N.B.** Dr (Mrs) Usha Panjwani is the august Ph D Supervisor of Dr Abhirup Chatterjee.

SOME UNIQUE SELLING POINTS (USP) TO SUPPORT MY CANDIDATURE

Self-driven, results-oriented with a positive outlook, and a clear focus on high quality. A natural forward planner who critically assesses own performance. Mature, credible, and comfortable in dealing with senior big company executives. Reliable, tolerant, and determined.

Empathic communicator, able to see things from the other person's point of view. Well-presented and business-like. Sufficiently mobile and flexible to travel. Keen for new experience, responsibility and accountability. Able to get on with others and be a team-player.

Internal staff management, for example the prospect of recruiting and managing support staff / officers. Some people-management skills, experience and natural ability will be useful.

'Execute the responsibilities of a company director according to lawful and ethical standards. Uphold, safeguard and promote the organisation's values and philosophy relating particularly to ethics, integrity and corporate (social) responsibility.

Further as a Professor / Director, I visibly understand that, my responsibilities, in terms of their relative importance and how they are shaped, in the 'non-functional' areas like ethics, environment, people, planet, community, etc., naturally reflect the corporate philosophy of the organisation concerned, and this is the mechanism by which change and improvement can be made.

I fervently believe that, my organisation needs to have a clearly stated position (from which stems the culture and 'spirit' - the philosophy - of the corporation) that clearly explains the relative priority within organisational aims of responsibility to staff, clients, shareholders, community, environment, etc., and also the significance of morality and ethics within the organisational ethos. These critical non-functional 'humanity and planet' responsibilities stem from the philosophy at the top of the organisation, not the PR department.

Corporate Responsibility (or whatever description we care to use) is a challenging and fluid subject, surrounded by much debate, characterised by various converging perspectives, notably, the 'Triple Bottom Line' (Profit - People - Planet), ethics and integrity, CSR (Corporate Social Responsibility - increasingly shortened simply to Corporate Responsibility), sustainability, Fair Trade, etc. Interpreting all this and creating a workable platform for it all within an organisation is the responsibility of the Secretary.

- DR ABHIRUP CHATTERJEE