

Curriculum Vitae

Dr. Chandima Gomes



• PERSONAL DETAILS

Name : Gorakanage Arosha Chandima Gomes
Date of Birth : 12-09-1966
Nationality : Sri Lankan
Civil Status : Married
Address : Room No: A.04.09, Department of Electrical and Electronic Engineering,
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• Profile in Brief:

- Senior Academic, holding Professor/ Associate Professor/ Senior Lecturer positions in the fields of Engineering, Physics and Meteorology at Universities in Several Countries.
- Senior Consultant in Electrical Engineering; Specialized in Lightning and Transient Protection, Grounding and Bonding, High Voltage Testing and Electrical safety.
- Senior Research Fellow in Physics & Engineering of Lightning and Thunderstorm Physics, Electromagnetism, Surface Flashover Characteristics of insulation materials, EMI/EMC & Shielding, Grounding Materials and Atmospheric Dynamics.
- Renowned Trainer of Trainers, Educator and advisor on Lightning and Transient Protection who has conducted about 80 training programs in over 12 countries.
- International figure that has pioneered in establishing over 15 research groups, information and awareness centers and consultancy institutions in several countries.
- Person with exceptionally fine communication and proposal writing skills at international level. Serving as an evaluator for IET UK and reviewer for eight international journals.
- Person with in-breadth knowledge in many beyond-the-expertise subjects; business communication, geography and history, social ethics, religions and philosophies etc.
- Team member, rather than an egoistic individual, who can work in a wide spectrum of disciplines under “rosy” to “rocky” conditions.

• ACADEMIC / PROFESSIONAL QUALIFICATION

PhD Degree in Lightning Physics, Thunderstorm Electricity & Discharge Phenomena (Uppsala University, Sweden/University of Colombo, Sri Lanka)

BSc Degree (Special Degree in Physics) with First Class Honours (University of Colombo)

CEng (Chartered Engineer, UK)

CPhys (Chartered Physicist, UK)

CPhys (Chartered Physicist, SL)

MIEE (Member of the Institute of Electrical Engineers, UK; *now IET*)

MInstP (Member of the Institute of Physics, UK)

MIP (Member of the Institute of Physics, Sri Lanka)

• ACADEMIC & PROFESSIONAL EXPERIENCE

Senior Academic Positions

Designation : Associate Professor of Engineering
Institutional Address : Dept. of Electrical Engineering, Putra University, Malaysia
Duration : From January 2010

Designation : Professor of Physics
Institutional Address : Dept. of Physics, University of Colombo, Colombo 03, Sri Lanka
Duration : From July 1994 up to date (Professorship pending from December 2009)

Designation : Visiting Professor of Meteorology
Institutional Address : Dept. of Meteorology, CIIT, Islamabad, Pakistan
Duration : February 2008

Designation : Visiting Research Scientist in Electrical Engineering
Institutional Address : Division of Electricity, Uppsala University, Sweden
Duration : From March 2009 to June 2009

Designation : Adjunct Associate Professor of Physics
Institutional Address : Patten University (USA), Sri Lanka Branch, Colombo 03, Sri Lanka
Duration : From September 2003 to September 2008

Designation : Adjunct Senior Lecturer of Physics
Institutional Address : Monash University (Australia), Sri Lanka Branch, Colombo 03, Sri Lanka
Duration : From January 2008 up December 2008

Other Academic Positions

Visiting Lecturer, MSc in Atmospheric Physics, Dynamical Meteorology and Natural Disaster Preparedness, University of Colombo, 2008

Visiting Lecturer, MSc. Meteorology/University of Colombo: 2000 / 2001

Visiting Lecturer, University of Moratuwa: 1999 / 2000

Visiting Lecturer, Kotalawala Defense Academy: 1994 – 1995

Professional Positions

1. Chief Technical Adviser & Senior Consultant on Grounding & Lightning Protection Systems; Steelman Electro Mechanical L.L.C., Dubai and UAE
2. Senior Advisor, National Lightning safety Institution, USA
3. Chief Consultant, Proman Ship Builders (Pvt) Ltd., China
4. Chief Technical Advisor & Senior Consultant on Grounding & Lighting Protection Systems, Indus Resources (Pvt) Ltd., Karachi, Pakistan.
5. Director, Technical Operations, South Asian Technology Research and Information Centre
6. Director International Affairs, LPCI (Pvt) Ltd., India
7. Chief Consultant on Electrical Engineering, LLAMPEC International (Pvt) Ltd., Sri Lanka
8. Leader of the Team of Consultants, LLAMPEC Internation (Pvt) Ltd. Sri Lanka
9. Senior Consultant, Capital Consultants, Pakistan
10. Senior Advisor, TARA, Bangladesh

RESEARCH ACHIEVEMENTS AND FIELD EXPERIENCE

International Awards

1. Presidential Award for Research-2010, Awarded by the National Research Council of Sri Lanka- Awarded for the contributions made from 2003-2006 in the research on Physics.
2. International Annual Lightning Safety Award -2003 by the National Lightning Safety Institution USA – This is awarded for the major contributions to the International Advancement of Lightning Safety Issues
3. Young Scientist Lectureship Award -2004 by Non Aligned Movement S&T Centre, New Delhi, India – This is awarded by the Centre for the Lectureship for the year 2004
4. NSF - TWAS Prize for Young Scientists-2004 by Third World Academy of Science, Italy- This is awarded to the Best Young Scientist in the field of Physics for the Year 2004

Patents

1. Horizontal Grounding System suited for rocky and arid areas: PI 2010006071
2. Vertical grounding system with improved backfill materials: PI 20010003832

Laboratory & Field Experience

1. High Voltage Laboratory Experiments

Marx Generator: 1.2 MV and 1.5 MV, 1.2 / 50 μ s Lightning impulse and various other switching impulses (at Uppsala University; 1965 Model and 2000 Model)

Hafely Current Generator: 100 kA 10 / 350 impulse and 200 kA 8 / 20 impulse (at Uppsala University and OBO Betterman Laboratory, Germany)

Combinational Waveform Generator: 6 kV and 3 kA (at University of Colombo)

AC and DC generators up to 400 KV (at Uppsala University)

HighPot Cable insulation Tester: Up to 180 kV (at Uppsala University)

Cable generator, Van de Graff generator, Roman generator, ESD generator etc (at Uppsala University)

2. Outdoor Field Measurements (in Sweden, Sri Lanka and Colombia)

Construction and installation of various types of vertical and horizontal antennas

Construction of buffer amplifiers and other electronics required for field measurements

Handling of fast transient recorders

Electromagnetic shielding, cabling etc.

3. Transient Protection and EMC (in Sri Lanka, India, Bangladesh, Pakistan and Malaysia)

Risk assessment and threat analysis

Designing of lightning protection systems for structures including high risk installations (petrochemical, power generation / distribution systems, hospitals, explosive storages etc.)

Designing and installation of surge protection devices for electrical and comm.. systems

Designing of grounding systems and analysis of grounding configurations

Current Research Interests

1. Modelling of lightning currents, investigation on the mobility of particles in the presence of atmospheric corona, investigation on severe weather events and patterns, measurement of electromagnetic fields due to thunderstorm related electrical events.
2. Studies on surface flashover characteristics of different insulators under different conditions, corona effects, insulation breakdown and material properties
3. Improvement of lightning structural and surge protection and Investigation on improved grounding systems (backfill materials, electrodes, configuration etc.)
4. Electromagnetic compatibility of civil and defense systems and electrical safety

• **ACTIVITIES AT INTERNATIONAL LEVEL**

Honorary Positions

1. A member of the Board of Advisors, National Lightning Safety Institution, USA
2. A member of the Board of Advisors, Centre of Excellence on Lightning Protection, Malaysia
3. Team Leader of the South Asian Lightning Awareness Program
4. Honorary advisor to the Bangladesh Lightning Awareness Centre
5. Honorary advisor to the Bangladesh Lightning Research Group
6. Honorary advisor to the Bhutan Lightning Awareness & Research Centre
7. Honorary advisor for Lightning Kerala Awareness Cell, India
8. Honorary advisor for Guwahati Lightning Awareness Centre, India
9. Honorary advisor for South Asian Technology Research and Information Centre
10. A Member of the Reviewing Panel – EMC Zurich Conference Reviewing Panel 2005
11. Advisor to Lightning Protection Consultants International (Pvt) Ltd. – India
12. Committee member of the International Conference on Adaptive Science & Technology, Accra, Ghana, Organized by GIMPA Campus, Ghana, 2007 & 2009
13. The Chairmen of a Scientific Session - ICLP – Uppsala, Sweden – June 2008
14. Scientific advisor to the Colombian Research Group for Lightning Protection and EMC
15. International membership evaluator for IET UK and Council of Engineering UK

• **ACTIVITIES AT NATIONAL LEVEL**

1. Visiting Research Scientist, Institute of Fundamental Studies, Kandy From August/2005
2. Chairman of the Expert Study Group on Lightning Protection & Electromagnetic Compatibility Concerns, Ministry of Science and Technology (NASTEC), Sri Lanka, 2006
3. Chairman of the Young Scientist Forum, NASTEC, 2004-2006
4. Advisor to the Industrial Development Authority/Western Province for the implementation of an Institute for Electronic Studies, 2002-2003
5. Member of the Publication Committee of Proceedings of the Technical Sessions-2002/IPSL
6. Chairman of the Lightning Protection Study Group, NASTEC, Sri Lanka
7. Advisor to the Presidential Secretariat on Lightning Protection
8. Appointed Scientist in setting up a Science Activity Room at the National Museum - NASTEC

9. Appointed Science Partner of British Council – Sri Lanka
10. Appointed as the Chairman of the Panel of Examiners to Evaluate the Degree of MSc. On “Developing a Lightning Detector for Sri Lanka at an Affordable Cost” – by the Postgraduate Studies, Faculty of Engineering – University of Moratuwa
11. Appointed Reviewer of Research Proposals – NSF
12. Appointed Resource Person for the production of Interactive Computer Aided Learning Package on “Force and Energy” for GCE O/L Students – NSF
13. Appointed Referee to evaluate the abstracts of the Annual Session 2006 – SLASS
14. Appointed Member of Panel at the workshop on “Barriers to Young Scientists” Organized by YSF – NASTEC
15. Chairman of the Study Group on Need for Establishing a National Centre for Lightning protection & EMC, (Study Group XVI) NASTEC - Sri Lanka - 2005/2006

Committee Representation and other Administrative Positions

1. Executive Member of the Council, IET (UK) Sri Lanka Branch, 2007-2008 / 2008-2009
2. Member of the three-person committee appointed by the Sri Lanka Telephone Regulatory Commission to investigate the Lightning Hazards due to the Presence of Communication Towers 2005 up to date
3. Member of the Thematic Committee on Natural Disaster Management, Ministry of Science and Technology 2006 up to date
4. Council Member of the Institute of Physics, Sri Lanka, 2002/2003
5. Member of the Steering Committee of the Young Scientists Forum (YSF) – NASTEC (2002 – 2007)
6. Member of the Technical Evaluation Committee - IRQUE Project
7. Member of the Interview and Evaluation Panel – IFS, Kandy
8. Member of the Editorial Board of “Science to Society” - YSF Science Magazine (NASTEC)
9. Member of the Organizing Committee of Techno Lanka Exhibition, Kuliyaipitiya - 2004 NASTEC
10. Member of the committee appointed by the Sri Lanka Telephone Regulatory Commission to investigate the Public Safety due to the Construction and Operation of Base Station Towers – January 2008 up to date
11. Member of the Young Scientist Forum – YSF – NASTEC
12. Member of SLASS – Since 2001
13. Member of the LLP Working Group, Dept. of Physics, University of Colombo

15. Member of the Atmospheric and Lightning Research Group – Dept. of Physics, University of Colombo
19. Secretary of the Steering Committee of Young Scientist Forum, NASTEC, 2003
20. Vice President of the Institute of Physics, Sri Lanka, 2003/2004
21. Secretary of the Institute of Physics, Sri Lanka, 2000-2002

• CARRIER AS A TRAINER & INTERNATIONAL EXPOSURE

Pioneer & Key Organizer of International Events

Activities: Development of proposal to attract funds, Event coordination through host organization, Pre-program preparation and budget management, post-event documentation

1. SALAP Phase-II Program (5 Two-day Program Series) – October-November/2007; Bangalore, Chennai, Coimbatore, Kochin – India, Chitagong-Bangladesh; Funded by SATRIC-South Asia & OBO Bettermann-Germany/India
2. International Roundtable on Lightning Protection (4 days), Colombo – May/2007; Funded by NASTEC-Sri Lanka and NAM S&T Centre-India
3. South Asian Lightning Awareness Program (8 Two-day Workshop Series) - December/2004-May/2005; Colombo-Sri Lanka, Dhaka-Bangladesh, Phuentsholing-Bhutan; Funded by USAID, UNESCO-New Delhi, TARA-Bangladesh, RBIT-Bhutan and UOC-Sri Lanka
4. UNESCO Regional Training Workshop on Lightning Physics (5 days), Colombo - March/2003; Funded by UNESCO-New Delhi & Department of Physics, University of Colombo-Sri Lanka

As the Keynote Speaker or Honourary Guest Speaker

1. “Lightning Protection in Tropical Malaysia”, Keynote Speech at 5th International Power Engineering and Optimization Conference 2011 (PEOCO2011), June 2011 at the Grand BlueWave Hotel, Shah Alam, Selangor, Malaysia
2. “Lightning Protection of Structures & Equipment”, Keynote Speech at 4th World Engineering Congress (WEC)-2010, August, 2010, Riverside Majestic Hotel, Sarawak, Malaysia
3. “Electrical Safety & Protection”, Keynote Speech at ELCA Power International Conference Electrical Consultants Association of India, June, 2009, Bangalore, India,
4. “Risk Assessment of High Risk Installations” Dinner Talk, Dhahran International Hotel, IEEE - Power Engineers, Saudi Arabia Chapter, December, 2008, Saudi Arabia

5. "Lightning and Transient Protection of Oil and Gas Industries", Dinner Talk, Dhahran International Hotel, IEEE - Power Engineers, Saudi Arabia Chapter, November, 2007.

As the Chief/Sole Resource Person

(Period of my contribution is indicated within parenthesis)

6. In-house Training Program on Lightning Protection, Grounding and Bonding of Communication Towers, for Engineering Staff Sutel Ltd., Coordinated by Llampec International Pvt Ltd., Colombo Sri Lanka, 24th & 25th June 2011 (2 days)
7. Training Program on Power Systems Stabilization and System Protection against Voltage Anomalies, Organized by Comfori Sdn Bhd, Malaysia, Hotel Istana, Kuala Lumpur, 11th & 12th April, 2011 (2 days)
8. Training Program on Transient Protection of Electrical and Electronic Equipment, Organized by Comfori Sdn Bhd, Malaysia, Hotel Istana, Kuala Lumpur, 15th & 16th March, 2011 (2 days)
9. Regional Seminar on Lightning Protection of Structures, Organized by Llampect International (pvt) Ltd., Hotel Galadari, Colombo, Sri Lanka, 29th March, 2011 (one day)
10. Workshop Series on Lightning Protection-2010-New Delhi, "Characteristics of Lightning & Lightning Protection of Structures", Organized by LPCI (India) and CELP (Malaysia), The Ambassador Hotel, New Delhi, India, 10th & 11th December, 2010 (1/2 day)
11. Workshop Series on Lightning Protection-2010-Mumbai, "Characteristics of Lightning & Lightning Protection of Structures", Organized by LPCI (India) and CELP (Malaysia), Hotel Holiday Inn, Mumbai, India, 7th & 8th December, 2010 (1/2 day)
12. Workshop Series on Lightning Protection-2010-Kolkata, "Characteristics of Lightning & Lightning Protection of Structures", Organized by LPCI (India) and CELP (Malaysia), Hotel Floatel, Kolkata, India, 3rd & 4th December, 2010 (1/2 day)
13. Regional Seminar on Lightning Protection & Grounding of Equipment, Organized by Llampect International (pvt) Ltd., Hotel Cinnamon Grand, Colombo, Sri Lanka, 26th November, 2010 (one day)
14. Seminar on Lightning Protection of Equipment and Structures, Conducted by IET Malaysia, Pearl International Hotel, Kuala Lumpur, June, 2010 (1/2 day)
15. Workshop on Lightning & Transient Protection of LV and MV systems, Conducted by IET Sri Lanka Network, Hotel Galadari, Colombo, November, 2009 (2 days)

16. Lightning Protection Concerns of Wind Energy Sector, DFCC World Bank Project on Mini-Hydro and Wind Energy Generation, Hotel Trans Asia (Hotel Cinnamon Lake) Colombo, Sri Lanka, August 2009 (3 days)
17. Lightning Protection of Mini/Micro Hydro Projects, DFCC World Bank Project on Mini-Hydro and Wind Energy Generation, (Hotel Cinnamon Lake) Colombo, Sri Lanka, July 2009 (2 days)
18. Fifth International Training Workshop on Lightning Protection Technology, Islamabad, Pakistan, Organized by Capital Consultants, Islamabad, February 2009 (3 days)
19. Lecture Course on Lightning Protection, Organized by High Voltage Research Group, Uppsala University, Sweden, (held in Colombo), January 2009 (3 days)
20. Short Course on Lightning Protection and Insulation Coordination for Power Systems, Saudi Arabia, Organized by King Fahd University of Petroleum and Minerals, December 2008 (5 days)
21. Workshop on Lightning Protection, Organized by Putra University, Malaysia, Kuala Lumpur, Malaysia, December 2008 (2 days)
22. Training Program on "Surge Protection Systems", Organized by Sri Lanka Navy, Trincomalee Naval Base, October 2008 (1 day)
23. Intensive Workshop on Structural Protection against Lightning, Colombo, Organized by SATRIC, August 2008 (1 day)
24. Short Course on Lightning Protection and Electrical Safety, Conducted by IET Sri Lanka Network, Sri Lanka Foundation Institute Auditorium, Colombo, July 2008 (6 days)
25. Special Workshop on Lightning Protection for Naval Personnel, Organized by SATRIC, Sri Lanka, Welisara Naval Base, June 2008 (1 day)
26. Fourth International Training Workshop on Lightning Protection Technology, Islamabad, Pakistan, Organized by Capital Consultants, Islamabad, January 2008 (3 days)
27. Short Course on Lightning Protection, Safety and Insulation Coordination for Power Systems, Saudi Arabia, Organized by King Fahd University of Petroleum and Minerals, November 2007 (5 days)
28. National Workshop on Lightning Protection and Safety, Bangalore, India, Organized by OBO Bettermann, Germany (Indian Coordinators), and SATRIC, November, 2007 (2 days)
29. National Workshop on Lightning Protection and Safety, Chennai, India, Organized by OBO Bettermann, Germany (Indian Coordinators), and SATRIC, November, 2007 (2 days)

30. National Workshop on Lightning Protection and Safety, Coimbatore, India, Organized by OBO Bettermann, Germany (Indian Coordinators), and SATRIC, November, 2007 (2 days)
31. National Workshop on Lightning Protection and Safety, Kochin, India, Organized by OBO Bettermann, Germany (Indian Coordinators), and SATRIC, November, 2007 (2 days)
32. Intensive Training Program in Lightning Protection, Chittagong, Bangladesh, Organized by Jahangirnagar University, TARA and SATRIC October, 2007 (2 days)
33. Intensive Training Program on Lightning Protection, Colombo, Sri Lanka, Organized by SLAAS Section E-1 and University of Colombo, August, 2007 (2 days)
34. Training Program on “Lightning Protection Systems”, Organized by Sri Lanka Navy, Colombo, July 2007 (1 day)
35. Special Workshop on Lightning Protection for Air Traffic Engineers, Organized by the Air Traffic Engineering Officers’ Association, June 2008 (1 day)
36. Third Training Workshop on Lightning Protection, Islamabad, Pakistan, Organized by Capital Consultants, Islamabad, June, 2007 (3 days)
37. Intensive Workshop on Lightning Protection of Electrical and Electronic Equipment, Organized by SATRIC, Colombo, April 2008 (1 day)
38. Intensive Training Program on Lightning Protection, Organized by SATRIC, Sri Lanka, October 2007 (2 days)
39. Intensive Training Program on Lightning Protection, Organized by SATRIC, Sri Lanka, September 2007 (2 days)
40. Workshop on Training of Trainers on Disaster Risk Management Modules introduced to the New School Science Curriculum – Organized by NSF, May 2007 (1 day)
41. International Roundtable on Lightning Protection, Organized by NASTEC and NAM Centre India, Colombo, May 2007 (4 days)
42. Workshop on Earthing for Lightning and Installation, Organized by the Power High Voltage and Energy Systems Club, Faculty of Engineering, Peradeniya University, March, 2007 (1 day)
43. Second Training Workshop on Lightning Protection, Islamabad, Pakistan, Organized by Capital Consultants, Islamabad, March, 2007 (2 days)

44. Workshop on Global climatic change, (“Climate Change begins with us, what can we do?”) - Organized by the British Council of Sri Lanka, British Council Auditorium, Colombo, January, 2007 (1/2 day)
45. Workshop on the Policy on “ National Lightning Protection”, NASTEC, Colombo, January 2007 (1 day)
46. Workshop on the “Erection of Telecommunication Towers” Organized by Telecommunication Regulatory Commission of Sri Lanka - 2007 (1 day)
47. Lightning; Safety and Protection, Organized by the Ministry of Science and Technology, Vidatha Centre, Bandaragama, December, 2006 (1 day)
48. Workshop on Lightning Surge Protection, Organized by Section E1 / SLASS jointly with Dept. of Physics, September 2006 (1 day)
49. Intensive Training Workshop on Lightning Protection, Islamabad, Pakistan, Organized by Capital Consultants, Islamabad, August, 2006 (2 days)
50. Lightning Protection Technology, Organized by the Ministry of Science and Technology, Vidatha Centre, Yatiyanthota, May, 2006 (1 day)
51. Special Presentation on JSTOR – 2006, Organized by University of Colombo, May, 2006 (1 day)
52. Assam Workshop on Lightning Protection, Guwahati, Assam, India, Organized by Guwahati University, India, April 2006 (2 days)
53. Intensive Training Program on Lightning Protection, Organized by Sri Lanka Telcom, SLT Training Centre, Welisara, March 2006 (7 day)
54. Intensive Workshop on Lightning Protection, Kerala, India, Organized by REC, Kerala, March 2006 (2 days)
55. National Symposium on Electrical Safety, Organized by IEE, Sri Lanka Branch, Hotel Galadari, Colombo, March, 2006 (2 days)
56. Workshop on Lightning : Its physics, chemistry and impact on life, Organised by Institute of Fundamental Studies (IFS), Kandy, IFS Auditorium, August, 2005 (3 hrs)
57. Workshop on Lightning Protection, Organised by Institute of Engineers, Sri Lanka, IESL Auditorium, August, 2005 (2 hrs)

58. Workshop on Lightning Surge protection, Organized by SLAAS Section E-1, Auditorium, Department of Meteorology, July 2005 (1 day)
59. Workshop on Lightning Protection for Engineers, Phuentsholing, Bhutan, Organized by RBIT, Bhutan, December, 2004 (2 days)
60. Technical Workshop in Electronics, Organized by PGIS, Peradeniya and University of Colombo, Department of Physics, University of Colombo, December 2004
61. Workshop on Lightning Physics and Lightning Protection, Dhaka, Bangladesh, Organized by Jahangirnagar University and TARA, December, 2004 (2 days)
62. National Science & Technology Commission organized Seminar at St.Benedict's College Colombo, on Electromagnetic Terrorism, November 2004 (1 day)
63. Inaugural Workshop on High Voltage Engineering and Electromagnetic Compatibility, Bogotá, Colombia, Organized by Universidad Nacional de Colombia, Bogota, October, 2004 (3 days)
64. Intensive Workshop on Lightning Protection, Organized by SLIDA, SLIDA Auditorium, Colombo, May 2004 (3 days)
65. National Science & Technology Commission organized Seminar at Kalutara, Lecture on the Beauty of Lightning (Akunaka Asiriya), March, 2004 (1 day)
66. Public Lecture on "Lightning Protection Alternative Methods" , Organized by SLASS Section E1, Auditorium of Department of Meteorology, December,2003 (1 day)
67. Fourth Annual Workshop on Lightning Protection, Organized by IPSL & IEE Sri Lanka Branch, Hotel Galadari, Colombo, December, 2003 (2 days)
68. Colombo Museum organized National Science & Technology Commission sponsored Lecture on Natural hazards, March, 2003 (3 hrs)
69. National Science & Technology Commission organized Seminar at Horana, Lecture on Lightning Protection of General Public, March, 2003 (1 day)
70. UNESCO, Regional Training Workshop on Lightning Physics – 2003 (5 days)
71. Third Workshop on Lightning Protection, Organized by IPSL & IEE Sri Lanka Branch, Hotel Renuka, Colombo, November, 2002 (2 days)
72. Second Workshop on Lightning Protection, Organized by IPSL, Hotel Renuka, Colombo, November, 2001 (2 days)

73. SLAAS Annual Sessions, Section E-1 Session on Lightning Protection, November, 2001 (2 hrs)
74. SLAAS, Section E-1 Public Talk on Electromagnetic Terrorism, SLASS Auditorium, February, 2001 (2 hrs)
75. SLAAS, Section E-1 Special Lecture on Physics of Lightning – Lightning Protection Systems available in Sri Lanka – 2001 (2 hrs)
76. Inaugural Workshop on Lightning & Lightning Protection, Organized by IPSL, 2000, SLAAS Auditorium, Colombo, November, 2000 (1 day)
77. Seminar on Interaction of Physics, Chemistry and Mathematics in Research and Industrial Applications, Organized by the Institute of Chemistry and Institute of Physics, May 2000 (1 day)

As the Main Coordinator and Resource Person

1. Asian Regional Coordinator, International Conference on Adaptive Science & Technology, Accra, Ghana, Organized by GIMPA Campus, Ghana, December 2007 (Could not attend due to funding constraints) & December, 2009 (5 days each)
2. Main Coordinator, International Round Table on Lightning Protection, Colombo, Sri Lanka, Organized by NAM S&T Centre, New Delhi and National Science & Technology Commission, Sri Lanka, May, 2007 (4 days)
3. Main Coordinator, UNESCO Regional Workshop on Lightning Physics, Colombo, Sri Lanka, Organized by UNESCO and University of Colombo, May 2003 (7 days)

As a presenter/Speaker of a paper/s (refer the section on publication for paper titles)

1. International Roundtable on Understanding and Prediction of Summer and Winter Monsoons, Jakarta/Bandung, Indonesia, November 2005
2. International Seminar on Physics in Developing Countries: Past, Present and Future, Islamabad, Pakistan, July 2005
3. 16th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February, 2005
4. 27th International Conference on Lightning Protection (ICLP), Avignon, France, September, 2004
5. 14th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February, 2001

6. 13th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February, 1999
7. 24th International Conference on Lightning Protection, Birmingham, UK, July, 1998
8. 10th International Symposium on High Voltage Engineering, Montreal, Canada, September, 1997
9. 2nd International Conference on Lightning and Mountains, Chamonix, Mont Blanc, France, June, 1997
10. 12th International Zurich Symposium on Electromagnetic Compatibility, Zurich, Switzerland, February, 1997

As a Participant

1. 36th International Nathiagali Summer College on Physics and Contemporary Needs: Photovoltaic, Organized by Pakistan Atomic Energy Commission, Islamabad, Pakistan, July 2011 (7 days)
2. International Workshop on PHYSWARE, ICTP, Italy, February, 2009 (14 days)
3. Product training on Latest Technological Development in Europe and Lightning Environment in South Asian Region - Organized by OBO Bettermann, Germany, July 2008 (3 days)
4. UNESCO Participation Programme 2006/2007 – Donation of Bioethics Books to the University for participation, Organized by NSF, March 2008 (3 days)
5. CTWF International Workshop “Development of Regional Earth System Model and its Applications” - Kunming, China, September 2008 (5 days)
6. Product Training Program of Surge Voltage Protection Products, Organized by OBO Bettermann, Germany, 2006 (2 days)
7. 28th International Nathiagali Summer College on Physics and Contemporary Needs, Islamabad, Pakistan, June/July, 2003 (14 days)
8. UNESCO – ASPEN Regional Workshop on Active Learning Methods in Physics and the ASPEN 4th GA 2002, Organized by University of Peradeniya, 2002 (3 days)
9. UNESCO Regional Workshop on the Use of Electronic Media in University Science Teaching, New Delhi, India, December/January, 2001/2002 (7 days)
9. First National Workshop on Computer Based Interactive Physics Teaching, Postgraduate Institute of Science, University of Peradeniy, February 2001 (3 days)

10. 25th International Nathiagali Summer College on the Needs of Contemporary Physics and Computer Modeling, Islamabad, Pakistan, June/July, 2000 (14 days)
11. UNESCO Regional Training Program on University Science Teaching, New Delhi, India, November, 1999 – Organized by Indira Gandhi National Open University, New Delhi (7days)
12. Workshop on “Physics and Mathematics for National Development” , 2000 - Organized by NSF (1 day)
13. Scandinavian Workshop on Lightning Localizing Systems, Uppsala, Sweden, March, 1998 (5 days)

• RESEARCH PUBLICATIONS

Journal Publications

1. M. Izadi, M. Z. A. Ab. Kadir, **C. Gomes**, W. F. Wan Ahmad, “Evaluation Of Electromagnetic Fields Due To Lightning Channel With Respect To The Striking Angle”, International Review of Electrical Engineering (IREE), Vol. 6, No. 2, Part B, 2011 (**Citation Index with JIF: 1.364**)
2. M. Izadi, M. Z. A. A. Kadir, and **C. Gomes**, “Evaluation of electromagnetic fields associated with inclined lightning channel using second order FDTD-hybrid methods, Progress In Electromagnetic Research (PIER), July, 2011 (**Citation Index with JIF: 3.745**)
3. **C. Gomes** and M. Z. A. Ab. Kadir, “A Theoretical Approach to Estimate the Annual Lightning Hazards on Human Beings”, Atmospheric Research, 101, 719–725, 2011 doi:10.1016/j.atmosres.2011.04.020 (**Citation Index with JIF: 1.597**)
4. **C. Gomes** and A G Diego, “Lightning protection scenarios of communication tower sites; human hazards and equipment damage”, Safety Science, 10.1016/j.ssci.2011.05.006, Vol. 49, 1355–1364, 2011 (**Citation Index with JIF: 1.637**)
5. **C. Gomes** and M. Z. A. Ab. Kadir “Lightning Protection: Getting it Wrong”, IEEE Technology and Society Magazine (selected as the cover page article), Summer-2011, Volume 30, Issue 2, pp 13-21, 2011 (**Citation Index with JIF: 0.375**)
6. **C. Gomes** and M. Z. A. Ab. Kadir, “Protection of Naval Systems Against Electromagnetic Effects Due to Lightning”, Progress In Electromagnetic Research (PIER), Vol. 113, pp 333-349, 2011 (**Citation Index with JIF: 3.745**)
7. **Gomes, C.** “On the selection and installation of surge protection devices in a TT wiring system for equipment and human safety”, Safety Science, Vol. 49, 861–870, 2011, (**Citation Index with JIF: 1.637**)

8. M. Izadi, M. Z. A. Ab. Kadir, **C. Gomes**, W. F. Wan Ahmad, "An Analytical Second-FDTD Method For Evaluation of Electric and Magnetic Fields at Intermediate Distances From Lightning Channel", Progress In Electromagnetic Research (PIER), Vol. 110, pp 329-352, 2010 (**Citation Index with JIF: 3.745**)
9. **Gomes, C.** and V. Cooray, Electromagnetic Transients in Radio / Microwave Bands and Surge Protection Devices, Progress In Electromagnetic Research (PIER), Vol. 108, 101-130, 2010 (**Citation Index with JIF: 3.745**)
10. **Gomes, C.**, "Human Safety against Lightning", The Lightning Phenomenon, NAM S&T Centre, India, pp 98-102, 2008
11. **Gomes, C.**, " Lightning: Its' nature and characteristics", The Lightning Phenomenon, NAM S&T Centre, India, pp 68-73, 2008
12. Ahmed M. and **C. Gomes**, "Lightning Safety Awareness Programme Especially in South Asia to minimize human lives and properties", The Lightning Phenomenon, NAM S&T Centre, India, pp 110-121, 2008
13. Fernando M. and **C. Gomes**, "Lightning Detection and Warning Systems", The Lightning Phenomenon, NAM S&T Centre, India, pp 81-83, 2008
14. **C. Gomes**, "Lightning: Basics, Safety and Protection", Vidurava, NSF, Vol. 22, No.2, 3-8, 2005
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