

Curriculum Vitae*

Dr. Sameen Ahmed Khan, Ph.D

Assistant Professor,

Engineering Department, Salalah College of Technology (SCOT),

Post Box No. 608, Postal Code: 211, **Salalah, Sultanate of Oman**

rohelaakhan@yahoo.com

<http://www.sct.edu.om/>

GSM: +968-9953XXXX

<http://rohelaakhan.googlepages.com/>

<http://www.geocities.com/rohelaakhan/>

CAREER OBJECTIVE

Faculty Member in Departments of Mathematics or Physics in Universities, Institutes of Technology or Engineering Colleges with teaching and research in Mathematics and Physics.

EDUCATION

Ph.D (Mathematical Physics), The Institute of Mathematical Sciences, Madras, India (1991-1997).

Dissertation: Development of quantum mechanical treatment for the study of transport of charged-particle beams through electromagnetic systems.

Advisor: Professor Ramaswamy Jagannathan.

M.S. (Physics), Indian Institute of Technology (IIT), Kanpur, India (1988-1990).

B.S. Honors (Physics), Osmania University, Hyderabad, India (1985-1988).

Computer Experience: Familiar with UNIX/LINUX, DOS, Fortran, LaTeX, Microsoft Word, Microsoft Excel, Power Point and Web-Designing.

TEACHING EXPERIENCE

Full-time Lecturer Salalah College of Technology, **SCOT**, May-2006 to Present
Middle East College of Information Technology, **MECIT**,
September 2003 to May 2006.

Teaching Two-Semester Sequence of Physics for Engineering; Three-Semester Sequence of Engineering Mathematics (Foundation Mathematics, College Mathematics, Calculus with Numerical Methods and Advanced Calculus) and Two-Semester Sequence of Physics (Physics, Engineering Mechanics and Engineering Physics).

Other activities

- Drafted the syllabus for the new BS Programmes.
- Set up the Department Homepage on the College Intranet, which contains in-house prepared *Lecture Notes* and *Question Banks*, meeting most of the requirements of all the courses offered by the department.
- Conducted the *first* Mathematics Olympiad in the College with two colleagues.
- Served on several College Committees (*Disciplinary Committee, Journal Committee, Library Committee, Web-Site Committee, Prizes and Awards Committee, Accreditation Steering Committee*)

RESEARCH EXPERIENCE

- CONACYT-UNAM Postdoctoral Fellow, Centro de Ciencias Físicas, Universidad Nacional Autónoma de México, Cuernavaca, MÉXICO (October 2001 — October 2002).
Advisor: Professor Kurt Bernardino Wolf.
Research: Unified treatment of light beam optics and polarization.
- INFN Post-Doctoral Fellow, Istituto Nazionale di Fisica Nucleare (INFN), Dipartimento di Fisica Galileo Galilei, Università di Padova, ITALY (October 1997 — October 1999).
Advisor: Professor Modesto Pusterla.
Research: Beam Halo Problem.
- **Independent Research** (see the peer-reviewed publications, 6-9 and the Book Chapter.)

* Brief Version, updated on Friday the 28 August 2009.

HONORS AND AWARDS

Mathematics Olympiads: Won the State Level Mathematics Olympiads at: Junior Level (1983), Senior Level (1985) and Undergraduate Level (1986 to 1988), conducted by The Andhra Pradesh Association of Mathematics Teachers (APAMT), India.

Young Physicists Colloquium: Invited Lecture at the Young Physicists Colloquium Kolkata (Calcutta), August 1996, Organized by The Indian Physical Society (IPS).

PROFESSIONAL AFFILIATIONS

- American Physical Society
- Optical Society of America
- International Association of Mathematical Physics

PATENTS

- Sameen Ahmed Khan,
Quadricmeter,
Official Journal of the Patent Office, Issue No. **43/2008**, Part-I, pp. 25296 (24 October 2008).
Application No.: **2126/MUM/2008 A**, International Classification: **B69G1/36**,
Controller General of Patents Designs and Trade Marks, Government of India.
http://ipindia.nic.in/ipr/patent/journal_archieve/journal_2008/patent_journal_2008.htm
(*in process*, <http://www.geocities.com/rohelakhan/quadricmeter.html>).

PUBLICATIONS

BOOK CHAPTERS

- R. Jagannathan and S. A. Khan, **Quantum theory of the optics of charged particles**, *Advances in Imaging and Electron Physics*, Editors: P. W. Hawkes, B. Kazan and T. Mulvey, (Academic Press, San Diego, 1996) **Vol. 97**, pp. 257-358 (1996). (ISBN-10: 0120147394 and ISBN-13: 978-0120147397).
- Sameen Ahmed Khan, **Wavelength-Dependent Effects in Light Optics**, in *New Topics in Quantum Physics Research*, Editors: Volodymyr Krasnoholovets and Frank Columbus, (Nova Science Publishers, New York, 2006, <http://www.novapublishers.com/>) pp. 163-204 (30 December 2006). (ISBN-10: 1600210287 and ISBN-13: 978-1600210280).
- Sameen Ahmed Khan, **The Foldy-Wouthuysen Transformation Technique in Optics**, *Advances in Imaging and Electron Physics*, Editor: Peter W. Hawkes, (Elsevier, 2008) **Vol. 152**, pp. 49-78 (August 2008). (ISBN-10: 0123742196 and ISBN-13: 978-0-12-374219-3).

PEER-REVIEWED JOURNALS

1. S. A. Khan and R. Jagannathan, **On the quantum mechanics of charged particle beam transport through magnetic lenses**, *Physical Review E* **51**, 2510-2515 (1995).
2. M. Conte, R. Jagannathan, S. A. Khan and M. Pusterla, **Beam optics of the Dirac particle with anomalous magnetic moment**, *Particle Accelerators* **56**, 99-126 (1996).

3. S. A. Khan and M. Pusterla, **Quantum-like approach to the transversal and longitudinal beam dynamics. The halo problem**, *European Physical Journal A* **7** No. 4, 583-587 (2000).
4. Sameen Ahmed Khan and Modesto Pusterla, **Quantum approach to the halo formation in high current beams**, *Nuclear Instruments and Methods in Physics Research (NIMS) A* **464**, 461-464 (2001).
5. Sameen Ahmed Khan and Kurt Bernardo Wolf, **Hamiltonian orbit structure of the set of paraxial optical systems**, *Journal of the Optical Society of America (JOSA)* **19** (12), 2436-2444 (December 2002).
6. Sameen Ahmed Khan, **Wavelength-dependent modifications in Helmholtz Optics**, in *International Journal of Theoretical Physics*, **44**(1), 95-125 (January 2005), (Kluwer Academic Publishers, 2005, <https://www.editorialmanager.com/ijtp/>).
7. Sameen Ahmed Khan, **An Exact Matrix Representation of the Maxwell's Equations**, *Physica Scripta*, **71** (5), 440-442 (2005). (<http://www.physica.org/>).
8. Sameen Ahmed Khan, **The Foldy-Wouthuysen Transformation Technique in Optics**, *Optik - International Journal for Light and Electron Optics*, **117**, Issue 10, pp. 481-488 (October 2006) (Elsevier, <http://www.elsevier-deutschland.de/ijleo/>).
9. Sameen Ahmed Khan, **Maxwell Optics of Quasiparaxial Beams**, *Optik - International Journal for Light and Electron Optics*, **120**, Issue ??, pp. ???-??? (??? 2009) (Elsevier, <http://www.elsevier-deutschland.de/ijleo/>)
(in press, **Digital Object Identifier**, <http://dx.doi.org/10.1016/j.ijleo.2008.07.027>).
10. Sameen Ahmed Khan and Modesto Pusterla, **On the form of Lorentz-Stern-Gerlach force**, (submitted).
11. Sameen Ahmed Khan, Ramaswamy Jagannathan and Rajiah Simon, **Foldy-Wouthuysen transformation and a quasiparaxial approximation scheme for the scalar wave theory of light beams**, (submitted).
12. Sameen Ahmed Khan, **Wavelength-dependent modifications in Maxwell Optics**, (submitted).

The corrections to the traditional descriptions rigorously derived in the above articles have a significant bearing on the celebrated Scherzer Theorem in the wavelength-dependent regime in electron microscopy and the algebraically equivalent system of fiber optics. An application for a patent shall be made in the near future!

PUBLICATIONS IN CONFERENCE PROCEEDINGS & PREPRINTS

1. S. A. Khan and R. Jagannathan, **Theory of relativistic electron beam transport based on the Dirac equation**, in: *Proceedings of the 3rd National Seminar on Physics and Technology of Particle Accelerators and their Applications PATPAA-93* (25-27 November 1993, Kolkata (Calcutta)), Editor: S. N. Chintalapudi (IUC-DAEF, Kolkata, India), 102–107.

2. S. A. Khan and R. Jagannathan, **Quantum mechanics of charged particle beam optics: An operator approach**, *Preprint: IMSc-94/11* Presented at the **JSPS- KEK International Spring School on High Energy Ion Beams–Novel Beam Techniques and their Applications**, Japan, 17-29 March 1994.
3. R. Jagannathan and S. A. Khan, **Wigner functions in charged particle optics**, *in: Selected Topics in Mathematical Physics–Professor R. Vasudevan Memorial Volume*, *Editors: R. Sridhar, K. Srinivasa Rao, and V. Lakshminarayanan* (Allied Publ., Delhi, India 1995), pp. 308-321.
4. S. A. Khan, **Transport of Dirac-particle beams through magnetic quadrupoles**, *Preprint: IMSc/96/33* (The Institute of Mathematical Sciences, Chennai (Madras), Dec. 1996).
5. R. Jagannathan and S. A. Khan, **Quantum mechanics of accelerator optics**, *ICFA Beam Dynamics Newsletter*, **13**, 21-27 (April 1997). (**ICFA**: International Committee for Future Accelerators).
6. S. A. Khan, **Quantum theory of magnetic quadrupole lenses for spin- $1/2$ particles**, *in: Proceedings of the 15th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics*, (04-09 January 1998, Monterey, California USA), *Editor: Pisin Chen*, (World Scientific, Singapore, 1999), pp. 682-694.
7. Sameen A. Khan, **Quantum aspects of accelerator optics** *in: Proceedings of the 1999 Particle Accelerator Conference PAC99*, (29 March - 02 April 1999, New York City, NY), *Editors: A. Luccio and W. MacKay*, (IEEE Catalogue Number: 99CH36366) pp. 2817-2819.
8. Sameen A. Khan and Modesto Pusterla, **Quantum mechanical aspects of the halo puzzle**, *in: Proceedings of the 1999 Particle Accelerator Conference PAC99* (29 March - 02 April 1999, New York City, NY), *Editors: A. Luccio and W. MacKay*, (IEEE Catalogue Number: 99CH36366) pp. 3280-3281.
9. Sameen A. Khan and Modesto Pusterla, **Quantum-like approaches to the beam halo problem**, *in: Proceedings of the 6th International Conference on Squeezed States and Uncertainty Relations ICSSUR'99*, (24-29 May 1999, Napoli, Italy, *Editors: D Han, Y S Kim, and S Solimeno*, (NASA Conference Publication Series 2000-209899) 438-441 (July 2000).
10. S. A. Khan, **Quantum formalism of beam optics**, *in: Proceedings of the 18th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics* (15-20 October 2000, Capri, Italy), *Editor: Pisin Chen*, (World Scientific, Singapore, June 2002). pp. 517-526.
11. Sameen Ahmed Khan, **Analogies between light optics and charged-particle optics**, *ICFA Beam Dynamics Newsletter*, **27**, pp. 42-48 (June 2002).

E-PRINTS (<http://arXiv.org/>)

1. Sameen Ahmed Khan, **An Alternate way to obtain the aberration expansion in Helmholtz Optics**, *E-Print: <http://arxiv.org/abs/physics/0210001/>*
2. Sameen Ahmed Khan, **Maxwell Optics: I. An exact matrix representation of the Maxwell equations in a medium**, *E-Print: <http://arxiv.org/abs/physics/0205083/>*

3. Sameen Ahmed Khan, **Maxwell Optics: II. An Exact Formalism**, *E-Print*: <http://arxiv.org/abs/physics/0205084/>
4. Sameen Ahmed Khan, **Maxwell Optics: III. Applications**, *E-Print*: <http://arxiv.org/abs/physics/0205085/>
5. Sameen Ahmed Khan, **Wavelength-Dependent effects in Maxwell Optics**, *E-Print*: <http://arxiv.org/abs/physics/0210027/>

EXPOSITORY PUBLICATIONS

1. Sameen Ahmed Khan, **The World of Synchrotrons**, *Resonance Journal of Science Education*, **6**, No. 11, pp. 77-84 (November 2001). (Monthly Pub. of the Indian Academy of Sciences (IAS), Copublished with Springer); *E-Print* <http://arxiv.org/abs/physics/0112086/>. Cited in the sections on *Synchrotrons* in *THE NET ADVANCE OF PHYSICS* (Review Articles and Tutorials in an Encyclopedic Format). <http://web.mit.edu/redingtn/www/netadv/Xsynchrotr.html>
2. Sameen Ahmed Khan, **Introduction to Synchrotron Radiation**, *Bulletin of the IAPT*, **19** (5), pp. 149-153 (May 2002). (IAPT: Indian Association of Physics Teachers).
3. Sameen Ahmed Khan, **Electron Beams for Radiation**, *Kiran*, **13** (3) pp. 40-42 (July 2002). (Kiran: Bulletin of the Indian Laser Association).
4. Azher Majid Siddiqui and Sameen Ahmed Khan, **Ion Beam Channeling and Accelerator Programmes in India**, *MRSI Newsletter*, Vol. **B 02**, Number 4, pp. 3-5 (October 2002). (MRSI: Materials Research Society of India).
5. Fathiya Khamis Al Rawahi, Sameen Ahmed Khan and Abdul Huq, **Microsoft Excel in the Mathematics Classroom: A Case Study**, in *Proceedings of The Second Annual Conference for Middle East Teachers of Mathematics, Science and Computing (METSMaC 2006)*, The Petroleum Institute, Abu Dhabi, United Arab Emirates, 14-16 March 2006. *Editors*: Seán M. Stewart, Janet E. Olearski and Douglas Thompson, pp. 131-134 (2006).
6. Sameen Ahmed Khan, **Microsoft Excel in the Physics Classroom**, in *Proceedings of The Third Annual Conference for Middle East Teachers of Mathematics, Science and Computing (METSMaC 2007)*, The Petroleum Institute, Abu Dhabi, United Arab Emirates, 17-19 March 2007. *Editors*: Seán M. Stewart, Janet E. Olearski, Peter Rodgers, Douglas Thompson and Emer A. Hayes, pp. 171-175 (2007).
7. Sameen Ahmed Khan, **Data Analysis Using Microsoft Excel in the Physics Laboratory**, *Bulletin of the IAPT*, **24** (6), pp. 184-186 (June 2007). (IAPT: Indian Association of Physics Teachers).
8. Sameen Ahmed Khan, **Spherometer and Cyndrometer**, (*communicated*). The article discusses the traditional spherometer and some variants such as the ring spherometer and the cyndrometer (also known as Cyndro-Spherometer), fabricated by the author.

POPULAR WRITINGS

A. Report

- Sameen Ahmed Khan,
Synchrotron Radiation (in Asia),
ATIP Report No. **ATIP02.034**, 28 pages (21 August 2002).
(The Asian Technology Information Programme, Tokyo, Japan, 2002).

B. Letters & Articles

1. Sameen A. Khan, **The International Center for Theoretical Physics -A Personal Impression**, *Al-Nahl*, Special Issue on Dr. Abdus Salam, **8**, pp. 122-124 (Fall 1997). (*Al-Nahl*: A quarterly publication of Majlis Ansarullah, USA).
* ICTP, the Abdus Salam International Centre for Theoretical Physics is located in Trieste, the Science City in Italy.
* The Urdu translation of this article has appeared in the book, *Impressions of Dr. Abdus Salam, Nobel Laureate*, by Muhammad Zakaria Virk, pp. 199-203 (*Abdus Salam Science Academy*, Kingston, Ontario, Canada, 2003, ISBN: 18951950204).
2. Sameen Ahmed Khan, **Call for Creation of Accelerator & Beam Physics Forums**, *ICFA Beam Dynamics Newsletter*, **17**, pp. 5-6 (August 1998). (**ICFA**: International Committee for Future Accelerators); *Europhysics News*, **30** (2), pp. 49-50 (March/April 1999) (Publication of **EPS**: the *European Physical Society*).
3. Sameen Ahmed Khan, **Salam's Bright Idea**, *Letter in Physics World*, **12** (11), pp. 5 (November 1999).
4. Sameen Ahmed Khan, **Salam Inspired Plans for Mideast Synchrotron**, *Letter in Physics Today*, **53** (1), pp. 78 (January 2000).
5. Sameen Ahmed Khan, **Opening SESAME**, *Letter in CERN Courier*, **40** (3), pp. 38 (April 2000). (**CERN**: European Organization for Nuclear Research).
6. Sameen Ahmed Khan, **Jordan to host Middle East Synchrotron**, *ICFA Beam Dynamics Newsletter*, **22**, pp. 6-7 (August 2000). (**ICFA**: International Committee for Future Accelerators).
7. Sameen Ahmed Khan, **SESAME: The First Synchrotron Facility in the Middle East**, *AAPPS Bulletin*, **10** (2), pp. 36-39 (December 2000). (**AAPPS**: Association of Asia Pacific Physical Societies).
8. Azher Majid Siddiqui and Sameen Ahmed Khan, **SESAME, the First International Science Centre in the Middle East: A Step towards the Renaissance of Science in the Islamic Countries**, *Journal of Islamic Science*, **17**, No. 1-2, pp 9-34 (January-December 2001/1421-22 AH). (Published by **MAAS**, the Muslim Association for the Advancement of Science, Aligarh, India).
9. Sameen Ahmed Khan, **The Middle East Synchrotron Laboratory and India**, *Current Science*, **80** (2), pp. 130-132 (25 January 2001).

10. Sameen Ahmed Khan, **Middle East Synchrotron, Jordan**, (Information and Announcements), *Resonance Journal of Science Education*, Vol. **6**, No. 2, back-cover-inside (February 2001). (Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer).
11. Sameen Ahmed Khan, **The Story of the Relocated Synchrotrons**, *Indian Science Cruiser*, **15**, No. 2, 26-30 (April 2001).
12. Sameen Ahmed Khan, **The Millennium of Synchrotrons**, *Physics Teacher*, **43** (4), pp. 75-78 (October-December 2001). (Quarterly Publication of **IPS**: the Indian Physical Society).
13. Sameen Ahmed Khan, **The World of Synchrotrons**, *Resonance Journal of Science Education*, **6** (11), pp. 77-84 (November 2001). (Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer). *Larger Version* as *E-Print*: <http://arXiv.org/abs/physics/0112086/>. Cited in the sections on *Synchrotrons* in *THE NET ADVANCE OF PHYSICS* (Review Articles and Tutorials in an Encyclopedic Format). <http://web.mit.edu/redingtn/www/netadv/Xsynchrotr.html>
14. Sameen Ahmed Khan, **A Synchrotron Radiation Facility in the Middle East**, *ICO Newsletter*, 51, pp. 3 (April 2002). *Supplement to Optics & Photonics News (OPN)*, **13**, No. 4, (April 2002). (**ICO**: International Commission for Optics). *Larger Version* at the ICO Website: <http://www.ico-optics.org/>.
15. Sameen Ahmed Khan, **Introduction to Synchrotron Radiation**, *Bulletin of the IAPT*, **19** (5), pp. 149-153 (May 2002). (**IAPT**: Indian Association of Physics Teachers).
16. Sameen Ahmed Khan, **Analogies between light optics and charged-particle optics**, *ICFA Beam Dynamics Newsletter*, **27**, pp. 22-48 (June 2002). (**ICFA**: International Committee for Future Accelerators). Cited in *Optics Section of THE NET ADVANCE OF PHYSICS* (Review Articles and Tutorials in an Encyclopedic Format). <http://web.mit.edu/redingtn/www/netadv/Xoptics.html>
17. Sameen Ahmed Khan, **Prospects for an Asian Accelerator Laboratory**, *AAPPS Bulletin*, 12 (2), pp. 21-27 (June 2002). (**AAPPS**: Association of Asia Pacific Physical Societies).
18. Sameen Ahmed Khan, **Electron Beams for Radiation**, *Kiran*, **13** (3) pp. 40-42 (July 2002). (**Kiran**: Bulletin of the Indian Laser Association).
19. Sameen Ahmed Khan, **A German Synchrotron for the Middle East**, *IRPS Bulletin*, **16** (2), 5-8 (August 2002). (**IRPS**: International Radiation Physics Society).
20. Sameen Ahmed Khan, **When will there be an Asian Accelerator Laboratory?**, *ICFA Beam Dynamics Newsletter*, **28**, pp. 49-54 (September 2002). (**ICFA**: International Committee for Future Accelerators).
21. Azher Majid Siddiqui and Sameen Ahmed Khan, **Ion Beam Channeling and Accelerator Programmes in India**, *MRSI Newsletter*, Vol. **B 02**, Number 4, pp. 3-5 (October 2002). (**MRSI**: Materials Research Society of India).
22. Sameen A. Khan and Susan M. Reiss, **Donated Synchrotron will further Middle East Cooperation; Sharing Synchrotrons**, *Optics & Photonics News (OPN)*, **13**, No. 11, pp. 14-15 (November 2002).
23. Sameen Ahmed Khan, **The Middle East Synchrotron Facility can bring Regional Cooperation**, *DOMES*, **11** (2), pp. 57-71 (Winter/December 2002). (**DOMES**: Digest of Middle East Studies).

24. Sameen Ahmed Khan and Azher Majid Siddiqui, **Story of the Middle East Synchrotron**, *Pakistan Link*, pp. ??? (Friday the 24 January 2003). (Published from Irvine, California, USA).
25. Sameen Ahmed Khan and Azher Majid Siddiqui, **Synchrotron Light in the Middle East**, *Radiance Viewswweekly*, **Vol. XXXVII**, No. 49, pp. 20-21 (23 February – 1 March 2003).
26. Sameen Ahmed Khan, **King Faisal Palace to become a University**, *Radiance Viewswweekly*, **Vol. XXXVII**, No. 49, pp. 26 (23 February – 1 March 2003); *AAPPS Bulletin*, **13** (2), pp. 34-35 (April 2003). (**AAPPS**: Association of Asia Pacific Physical Societies); *Pakistan Link*, pp. ?? (Friday the 11 April 2003). (Published from Irvine, California, USA).
27. Sameen Ahmed Khan, **Professor Abdus Salam and the Middle-East Synchrotron**, *Review of Religions*, **98** (3), pp. 54-66 (March 2003).
* The above article has been translated into the Indonesian Language.
Profesor Abdus Salam dan Synchrotron Timur Tengah, *Review of Religions*, **98** (3), pp. 46-56 (Maret 2003).
28. Sameen Ahmed Khan and Azher Majid Siddiqui, **The Middle East Says Open SESAME**, *Islam Online*, (06 March 2003). <http://www.islam-online.net/English/Science/2003/03/article01.shtml>
29. Keith JACKSON, Sameen Ahmed KHAN, Abebe KEBEDE and Azher Majid SIDDIQUI, **SESAME the Nearest Synchrotron Radiation Facility to Africa**, at the website of the *African Synchrotron User Forum*. <http://www.physics.ncat.edu/~michael/asn/Africasynchrotron/index.html> (20 March 2003).
30. Sameen Ahmed Khan, **Dr. Praveen Chaudhari to Direct Brookhaven National Laboratory**, *Atlanta Samachar*, pp. 16 (20-26 March 2003); *AAPPS Bulletin*, **13** (2), pp. 34 (April 2003). (**AAPPS**: Association of Asia Pacific Physical Societies); *Thendral*, **3** (5), pp. A24 (April 2003) (**Thendral**: A Monthly Magazine for Tamils living in North America).
31. Sameen Ahmed Khan, **Dr. Katepalli Raju Sreenivasan appointed Abdus Salam ICTP Director**, *Atlanta Samachar*, pp. 16 (27 March - 02 April 2003); *AAPPS Bulletin*, **13** (2), pp. 34 (April 2003). (**AAPPS**: Association of Asia Pacific Physical Societies); *Thendral*, **3** (5), pp. A24 (April 2003). (**Thendral**: A Monthly Magazine for Tamils living in North America).
* ICTP, the Abdus Salam International Centre for Theoretical Physics is located in Trieste, the Science City in Italy.
32. Sameen Ahmed Khan, **Corner Stone laid for the SESAME Synchrotron**, *Atlanta Samachar*, pp. 16 (03-09 April 2003); *Thendral*, **3** (5), pp. A24 (April 2003). (**Thendral**: A Monthly Magazine for Tamils living in North America).
33. Sameen Ahmed Khan, **The Middle East Synchrotron**, *MERIA News*, **7** (4), pp. ??? (April 2003). (**MERIA**: Middle East Review of International Affairs).
34. Sameen Ahmed Khan, **The Middle East Synchrotron is Launched; Armenian Synchrotron; To Launch the African Synchrotron Programme**, *AAPPS Bulletin*, **13** (2), pp. 35-36 (April 2003). (**AAPPS**: Association of Asia Pacific Physical Societies).
35. Sameen Ahmed Khan, **Ground Breaking for the Middle East Synchrotron; Armenian Synchrotron; Time to Launch the African Synchrotron Research Programme**, *ICFA Beam Dynamics Newsletter*, **30**, 88-89, (April 2003). (**ICFA**: International Committee for Future Accelerators).

36. Sameen Ahmed Khan, **Need to Create Regional Synchrotron Radiation Facilities (RSRF)**, *IRPS Bulletin*, **17** (2), 7-13 (July 2003). (**IRPS**: International Radiation Physics Society).
37. Sameen Ahmed Khan, **Middle East Synchrotron: A New Tourist Attraction**, *Islamic Tourism*, (September 2003). (Web-Based News Bulletin: <http://www.islamictourism.com/>).
38. Sameen Ahmed Khan and Azher Majid Siddiqui, **A German Synchrotron Radiation Facility for the Middle East**, *Renaissance*, Vol. **14**, No. 2, pp. 37-40 (February 2004).
39. Sameen Ahmed Khan, **SESAME Synchrotron-Light for Experimental Science and Applications in the Middle East**, *Islamic Voice*, Vol. **17-03** No. 207, pp. 20 (March 2004, Muharram-Safar 1425).
40. Sameen Ahmed Khan, **E-Learning Challenges in the Middle East**, in *Proceedings of the International Conference in E-Business, E-Business in GCC – Challenges and Prospects (EGCC'04)*, (19 May 2004, Majan College (University College), Muscat, Sultanate of Oman).
41. Sameen Ahmed Khan, **Need to Create Science Centres in the Muslim World**, *Young Muslim Digest*, Vol. **26**, Issue 7, pp. 13-16 (September 2004).
42. Sameen Ahmed Khan, **The Plague of Spam: The Unsolicited E-Mails**, *Youth Observer*, Vol. No. 3, pp. 11 (November 2004 - Ramadhan 1425). Supplement to *Oman Observer*, Vol. 23, No. 358, (Saturday the 06 November 2004). (**OEPNPA**: Oman Establishment for Press, News, Publication and Advertising in co-operation with the Ministry of Education).
43. Reported by Sameen Ahmed Khan, **Oman Issues Stamp in Braille**, *Islamic Voice*, Vol. **17-11**, No. **215**, pp. 3 (November 2004).
44. Sameen Ahmed Khan, **Joint visits to CERN with SESAME**, *Letter in CERN Courier*, **44** (10), pp. 34 (December 2004). (**CERN**: European Organization for Nuclear Research).
45. Sameen Ahmed Khan, **Google Scholar Launched**, *Science Reporter*, Vol. **42**, No. 1, pp. 16 (January 2005). (**NISCAIR**: National Institute of Science Communication and Information Resources, Delhi, India).
46. Sameen Ahmed Khan, **The Google Scholar**, *Youth Observer*, pp. 7 (February 2005 – Dhul Hajjah 1425). Supplement to *Oman Observer*, Vol. **24**, No. 83, (Saturday the 05 February 2005). (**OEPNPA**: Oman Establishment for Press, News, Publication and Advertising in co-operation with the Ministry of Education).
47. Sameen Ahmed Khan, **Sergio Fubini (1928 – 2005)**, *Obituary in IAMP News Bulletin*, 4-5 (April 2005). (**IAMP**: International Association of Mathematical Physics); *AAPPS Bulletin*, **15** (3), pp. 31 (June 2005). (**AAPPS**: Association of Asia Pacific Physical Societies). Archived in the *Biographies Collection*, Center for History of Physics, *Niels Bohr Library & Archives*, American Institute of Physics, <http://www.aip.org/history/>.
48. Sameen Ahmed Khan, **CERN's Early History Revisited**, *Letter in Physics Today*, **58** (4), 87-89 (April 2005).
49. Sameen Ahmed Khan, **The Google Desktop Search**, *Youth Observer*, pp. 5 (April 2005 – Safar 1426). Supplement to *Oman Observer*, Vol. **24**, No. 139 (Saturday the 02 April 2005). (**OEPNPA**: Oman Establishment for Press, News, Publication and Advertising in co-operation with the Ministry of Education).

50. Sameen Ahmed Khan, **Forty Years of ICTP; Atomic and Molecular Physics Programmes at ICTP**, *ISAMP News Letter*, Vol. 1, Issue 1, pp. 4-6 (21 April 2005). (ISAMP: Indian Society of Atomic and Molecular Physics)
* ICTP, the Abdus Salam International Centre for Theoretical Physics is located in Trieste, the Science City in Italy.
51. Sameen Ahmed Khan, **Conference Report: Higher Education in Developing Countries: With a Focus on Muslim Contexts**, (Held at the Aga Khan University Institute for the Study of Muslim Civilisations, AKU-ISMC, 24-25 February 2005, London, UK), *Islamic Voice*, Vol. 18-05 No. 221, pp. 29 (May 2005, Rabbi-Al-Awwal 1426); *Young Muslim Digest*, Vol. 27, Issue 4, pp. 41 (June 2005); *Pakistan Link*, pp. ??? (Friday the 10 June 2005). (Published from Irvine, California, USA); *Renaissance*, Vol. 15, No. 7, pp. 44-45 (July 2005).
52. Sameen Ahmed Khan, **CERN and the World Wide Web**, *Youth Observer*, pp. 6 (May 2005 - Rabee Al Awwal 1426). Supplement to *Oman Observer*, Vol. 24, No. 174 (Saturday the 07 May 2005). (OEPNPA: Oman Establishment for Press, News, Publication and Advertising in co-operation with the Ministry of Education).
53. Sameen Ahmed Khan, **Sergio Fubini, MESC and SESAME**, *Letter in CERN Courier*, 45 (4), pp. 44 (May 2005). (MESC: Middle East Scientific Cooperation; CERN: European Organization for Nuclear Research).
54. Sameen Ahmed Khan, **Three Physicists win the King Faisal International Prize**, *AAPPS Bulletin*, 15 (3), pp. 34-35 (June 2005). (AAPPS: Association of Asia Pacific Physical Societies).
* The Prizes are awarded every year by the King Faisal Foundation (KFF), Saudi Arabia.
55. Sameen Ahmed Khan, **2004 – the Year of Jubilees; Fifty Years of CERN; Forty Years of ICTP, Ten Years of ESRF User Operation**, *IRPS Bulletin*, 19 (1), 4-8 (June 2005). (Newsletter of the International Radiation Physics Society); *ICFA Beam Dynamics Newsletter*, 37, pp. 12-18 (August 2005). (ICFA: International Committee for Future Accelerators).
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In March 2005, I was appointed as the *Regular Correspondent* for the ICFA Beam Dynamics Panel *Newsletters*, for the regions of *Middle East & Africa*. ICFA, the International Committee for Future Accelerators, provides a forum to discuss and implement plans for further promoting collaborative accelerator-based science. Its primary purpose is to strengthen collaboration in accelerator-based science, to encourage future projects, and to make recommendations to governments. Further details at:

<http://icfa-usa.jlab.org/archive/newsletter.shtml>

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<p><i>Prof. Ramaswamy JAGANNATHAN</i> The Institute of Mathematical Sciences 4th Cross Road Central Institutes of Technology Campus Tharamani Chennai (Madras) 600113 INDIA E-Mail: jagan@imsc.res.in Fax: +91-44-22541586 http://www.imsc.res.in/~jagan/</p>	<p><i>Prof. Rajiah. SIMON</i> The Institute of Mathematical Sciences 4th Cross Road Central Institutes of Technology Campus Tharamani Chennai (Madras) 600113 INDIA E-Mail: simon@imsc.res.in Fax: +91-44-22541586 http://www.imsc.res.in/~simon/</p>
<p><i>Prof. Modesto PUSTERLA</i> Dipartimento di Fisica Galileo Galilei Istituto Nazionale di Fisica Nucleare INFN Sezione di Padova Via Marzolo 8 Padova 35131 ITALY E-Mail: pusterla@pd.infn.it Fax: +39-049-8277112; 8277102 Phone: +39-049-8277137 http://www.pd.infn.it/~pusterla/</p>	<p><i>Prof. Mario CONTE</i> Dipartimento di Fisica Università di Genova Istituto Nazionale di Fisica Nucleare INFN Sezione di Genova Via Dodecaneso 33 Genova 16146 ITALY E-Mail: CONTEM@ge.infn.it Phone: +39-010-353620</p>