

19Dec2025

## Biodata



**Name** : FRANCIS P. XAVIER SJ

**Date of Birth** : October 23, 1952

**Present Position** : Program Director, DACA, Madurai

**Positions occupied** :

**Academic:**

1. Rector, Loyola Institutions (2019-2023), Chennai
2. Vice President for Academics and Research, Jesuit Worldwide Learning (JWL), Geneva (Jan 2017 – Jan 2019)
3. Gasson Professor (2017-2018), Boston College, USA
4. Chair, Task Force for: Education of the Marginalized, Rome (2017-2018) – Preparatory committee for Bilbao (Spain) meeting of Jesuit Universities
5. Founder – Director, Loyola-ICAM College of Engineering and Technology (2010-2016), Chennai
6. Member of Preparatory Committee (*Coetus Praevisu*) for GC 36, Rome (Sep 2015)
7. Provincial, Jesuit Madurai Province (1999-2005)
8. Founder-Director, Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai (1995-1999)
9. Vice Principal, Loyola College, Chennai (1994-1998)
10. Professor of Physics at Loyola College, Chennai (1981-1983 and 1992-2009)
11. Editor-in-Chief of “*Convergence*”, LIFE, Loyola College, Chennai (1995- 2017)
12. Research guide for PhD: Madras University, Chennai Anna University, Chennai, and MG University, Kottayam.
13. Visiting Faculty
  - a. Time Management, Vidyaniketan, Trivandrum (1994-2015)
  - b. Philosophy of Science, Satyanilayam, Chennai (1994-2015)
  - c. Religion and Science, Arul Kadal, Chennai (1995-2014)
  - d. Boston College, USA (Summer, 1993-2016)
14. Member, Board of Studies (Education):  
`Bharathidasan University (Trichy: 2025-202)

**Administration:**

1. Chief Academic Officer, JWL (2023)
2. Rector and Vice President, Loyola College Society, Chennai (2019-2023)
3. Vice President for Academics and Research, Jesuit Worldwide Learning (JWL), Geneva (Jan 2017 – Jan 2019)

4. Chair, TF for: Education of the Marginalized, Rome (2017-2018)
5. Founder – Director and Professor of Physics, Loyola-ICAM College of Engineering and Technology (LICET) Chennai (2010-2016)
6. Member of Preparatory Committee (Coetus Praevisu) for GC 36, Rome (Sep 2015)
7. Provincial, Jesuit Madurai Province (1999-2005)
8. Founder-Director, Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai (1995-1999)

**Research:**

1. Research guide for PhD: Madras University, Chennai, Anna University, Chennai, and MG University, Kottayam.
2. Editor-in-Chief of “Convergence”, LIFE, Loyola College, Chennai (1995-2017) – ISBN: 0972-6489
3. Institute of Physical Electronics, Stuttgart University, Germany (1998 –1999 Post doctoral research)
4. Boston College, USA (Doctoral Research 1986-1992)
5. Reviewer: a. *Intl. J. of Logistics Systems and Management*;  
b. *Book Publisher International*

**Present Address**

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PTC Post, Aruppukottai Road  
Madurai-625 022  
TN, INDIA  
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**Educational Qualifications**

: **BSc** (Physics – 1974 - 1977)  
Loyola College, Chennai, India  
**MSc** (Physics – 1977 - 1979)  
St Joseph’s College, Trichy, India  
**BPh** (Philosophy – 1979 - 1981)  
Jnana Deepa Vidyapeeth, Pune, India  
**MDiv** (Theology – 1983 - 1986)  
Sankt Georgen, Frankfurt/M, Germany  
**PhD** (Physics – 1986 - 1992)  
Boston College, Chestnut Hill, USA  
**Post-Doctoral Research** (1998-1999)  
Stuttgart University, Germany

**PhD Thesis**

: **Optical and Transport Properties of Phthalocyanine and Related Compounds** (1992)

**Teaching Experience**

: 1981-1983 (Asst Professor of Physics)  
Loyola College, Chennai, India

1986-1992 (Teaching Assistant)  
 Boston College, Chestnut Hill, USA  
 1992- 2009 (Professor of Physics)  
 Loyola College, Chennai, India  
 2010 – 2016 Professor of Physics, LICET  
 1995, 2010, 2011, 2013 (Visiting Professor)  
 “Science and Theology”  
 Jesuit Regional Theologate,  
 (Arul Kadal), Chennai, India  
 1994 – 2016 (Visiting Professor)  
 Time Management, Vidyaniketan,  
 St Xavier’s College, Trivandrum  
 2005 - 2016 (Visiting Professor)  
 “Philosophy of Science”  
 Jesuit National Philosophate  
 (Satyanilayam), Chennai, India

### Research Experience

: 2008 - 2016 (approved Doctoral guide)  
 Madras University, Chennai;  
 Mahatma Gandhi University,  
 Kottayam, Kerala; and  
 Anna University, Chennai  
 1996-2000 (collaborative research)  
 1. Indira Gandhi Centre for Atomic Research  
 (IGCAR), Kalpakkam, India  
 2. Central Electro-Chemical Research  
 Institute (CECRI), Karaikudi, India  
 1995 - 2010 (Director of Research)  
 Loyola Inst. of Frontier Energy (LIFE)  
 Loyola College, Chennai, India  
 1992 - 2016 (collaborative research)  
 1. Crystal Growth Centre, Chennai, India  
 2. Boston College, Chestnut Hill, USA  
 1986-1992 (Doctoral studies)  
 Boston College, Chestnut Hill, USA

### Publications

#### A. *Monographs/Books* (authored/edited):

##### A.29. **Properties of Matter and Acoustics,**

(Co-authored with CSA Raj)

Arul Anandar College Pub., Karumathur, Madurai, 2025

ISBN: 978-93-94448-23-0

##### A.28. **Know Quantum Science,**

(Co-authored with CSA Raj and John Mary)

Arul Anandar College Pub., Karumathur, Madurai, 2025.

ISBN: 978-93-94448-60-5

##### A.27. **From Hierarchy to Equity** (Ed),

- ISPCK/DACA, Delhi, 2025.  
ISBN: 978-81-19434-77-0
- A.26. **One Drop Ocean**,  
Don Bosco Pub., Chennai (2023).  
ISBN: 978-93-84960-19-3
- A.25. **Seeing Everything New**,  
ATC Pub., Bengaluru (2022).  
ISBN: 978-93-91399-33-7
- A.24. **Sharing: Jesuit Legacy** (Ed),  
Don Bosco Pub., Chennai (2021).  
ISBN: 978-93-84960-23-0
- A.23. **Implications of Quantum Logic to the Notion of Transcendence**,  
(Co-authored with Jerome Manyahi) –  
ISPCK, Delhi 2020.  
ISBN: 978-81-947592-1-8
- A.22. **Jesuit Education – Formation for Transformation**,  
ATC Pub., Bengaluru 2020.  
ISBN: 978-93-8896-852-2  
Book Review: *New Frontiers in Education*, **53**(4) Oct-Dec2020  
and **54** (1) Jan-Mar2021 67-74 (by Mark Labuntog).
- A.21. **Creating the 25<sup>th</sup> Hour**,  
ATC Pub., Bengaluru 2019.  
ISBN: 978-93-8896-821-8
- A.20. **Engineering Response to Climate Change** (Ed),  
LICET Publication, Chennai 2016.
- A.19. **Frontiers in Materials Science for Energy and Environment** (Ed)  
LIFE Publication, Loyola College, Chennai 2013.  
ISBN: 978-81-910217
- A.18. **Bioethics, Biodiversity and Making a Repository of Ethical World Views of Nature** (Ed)  
LIFE Publication, Loyola College, Chennai 2013.  
ISBN: 978-81-910217-8-3
- A.17. **Climate Change and Future Security** (Ed),  
LIFE Publication, Loyola College, Chennai (2010).
- A.16. **Die Rechte der Ausgegrenzten**, DHRC, Chengalpattu (2010).
- A.15. **Recent Trends in Sensor-Development for Environment Assessment and Management** (Ed),  
LIFE Publication, Loyola College, Chennai (2010).
- A.14. **The Rights of the Marginalized**,  
DHRC Publication, Chengalpet (2009).
- A.13. **Inventing the 25<sup>th</sup> hour: Time Management as Personal Management**,  
LIFE Publication, Loyola College, Chennai (2009).
- A.12. **Biodiversity, Bioresources, and Biotechnology: for sustainable Livelihood of rural Community** (Ed),  
Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai

- (2008)
- A.11. **God of the Atoms**,  
LIFE/ISPCK Publication, Delhi (2006).  
ISBN-10: 81-7214-930-1; ISBN-13: 978-8172149307
- A.10. **Education for the Marginalized** (in Tamil),  
DHRC Publication, Chengalpet (2006 – 1<sup>st</sup> Ed Jun & 2<sup>nd</sup> Ed Aug).
- A.9. **Beyond the Horizon**,  
St Mary's, Dindigul (2005).
- A.8. **Environment, Biodiversity and Bioethics** (Ed),  
Loyola College Publication, Chennai (2002).
- A.7. **Environment and Bioethics** (Ed),  
Loyola College Publication, Chennai (2000).
- A.6. **Materials for Energy Conversion** (Ed),  
Loyola College Publication, Chennai (1998)
- A.5. **Energy Crisis and Environment** (Ed),  
Loyola College Publication, Chennai (1997).
- A.4. **Conducting Polymers** (Ed),  
Loyola College Publication, Chennai (1996).
- A.3. **Guilt Feelings: Help to Moral Growth**,  
St Paul Publication, Mumbai (1995).  
ISBN: 817109241X
- A.2. **Recent Trends in Physics** (Ed),  
Loyola College Publication, Chennai (1994).
- A.1. **Optical and Transport Properties of Phthalocyanine and Related Compounds**  
(PhD Thesis) Microfilm Uni. International, Ann Arbor, MI, USA (1993).  
Order No. 9301713

**B. Research Papers in Research Journals (Physics/Science)** (authored/coauthored):  
<https://www.researchgate.net/scientific-contributions/Francis-P-Xavier-29481957/publications/1#articles>

- B.85. Physics as the Window to learn from Nature,  
In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*,  
Arul Anandar College Pub., Karumathur, Madurai, 2025, pp.viii-xliii.
- B.84. Science: An Invitation to Explore, to Experience, and to Explain,  
In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*, Arul  
Anandar College Pub., Karumathur, Madurai, 2025, pp.App. 1-33.
- B.83. Artificial Intelligence: Understanding and Collaborating,  
In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*, Arul  
Anandar College Pub., Karumathur, Madurai, 2025, pp.App. 34-48
- B.82. Recent Trends in Artificial Intelligence,  
In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*, Arul  
Anandar College Pub., Karumathur, Madurai, 2025, pp.App.49-66.
- B.81. Artificial Intelligence in a Boon or a Bane for Environmental Management?,  
*Eubios J. Asian and International Bioethics* **35**(1), Jan2025.
- B.80. Recent Trends in Physical Sciences: Search for Knowledge or Meaning?,

- CSA Raj et al, *Know Quantum Science*, Arul Andar College Pub., Karumathur, 2025, pp.163-179.
- B.79. Quantum Science helps us explore life's mysteries, *JIVAN*, Jan2025, 09-11; CSA Raj et al, *Know Quantum Science*, Arul Andar College Pub., Karumathur, 2025.
- B.78. Corrosion and collective Journey of the Globe: Proactive Protection, *Convergence*, **16**(1-4), 2023, 21-26.
- B.77. Corrosion and its Eradication: What we learn from the Nature, *Convergence*, **16**(1-4), 2023, 14-20.
- B.76. Climate Change and Impacts on Health, *Convergence*, **16**(1-4), 2023, 1-13.
- B.75. Discovering Self: Scientific Perspectives, *Omega*, **XXI** (2022)2, 116-126.
- B.74. Universal Peace Building through effective Implementation of Environmental Ethics through positive Deeds and Actions, *Formosan J. of Medical Humanities*, **23** (1&2), Dec2022, 10-17.
- B.73. Future Challenges to the Physicists, *Omega*, **XX** (2021)2 127-135.
- B.72. The Fifth Dimension of the Universe – Emergence and Convergence, *SNC J. Intercultural Philosophy*, **39** (Mar 2021) 48-61.
- B.71. Artificial Intelligence: Influence and Impact, *Omega*, **XIX** (2020)2 68-78.
- B.70. Our Challenges and Responsibilities Towards Tackling the Climate Change, *Proceed. Engin. Res. to Climate Change* (LICET), 2016 1-17.
- B.69. The Relevance of Ethics and its Essential Role in Modern Biotechnology, *Proceed. Engin. Res. to Climate Change* (LICET), 2016, 19-25.
- B.68. Ethical Dilemma Towards Food Security in Indian Scenario and the Role of Higher Educational Institutions, *Proceed. Engin. Res. to Climate Change* (LICET), 2016, 69-72.
- B.67. Global Warming and Climate Change: Issues and Challenges in 21st Century in India, *Proceed. Engin. Res. to Climate Change* (LICET), 2016, 73-76.
- B.66. Need for Development of Ethics in Curriculum for Different Streams of Students in Higher Educational Institutions, *Proceed. Engin. Res. to Climate Change* (LICET), 2016 81-84.
- B.65. Need of Bioethics in Energy and Environment Research, *Proceed. Engin. Res. to Climate Change* (LICET), 2016 85-95.
- B.64. Water Quality Assessment of Piatua River Using Macroinvertebrates in Puyo, Pastaza, Ecuador, *Am J Life Sciences* **3**(3) (2015) 167-174.
- B.63. An investigation on the effect of porosity on the transport properties of porous silicon, *Int. J. Microstructure and Materials Properties*, **8** (6) (2014) 462–477.
- B.62. Photoluminescence and photoconductivity studies on pure and aluminium doped ZnO nanostructured films, *Int J of Chem Tech Research*, **6** (3) (2014) 2204-2206.

- B.61. Effect of Al-dopant concentration on structural, optical and photoconducting properties in nanostructured zinc oxide thin films, *Mater. Sci. Semicond. Process*, **16** (2013) 295-302.
- B.60. Sol-Gel Preparation, Deposition and Characterization of Nanostructured Aluminium Doped Zinc Oxide, *J Nano Research*, **24** (2013) 96-106.
- B.59. Thickness dependent microstructure, optical and photo conducting properties of ZnO thin films by spin coating process, *Journal of Electron Devices*, **17** (2013) 1417-1422.
- B.58. Effect of post deposition annealing on the optical absorption and photoconductivity studies of pure ZnTe and pure MgPc thin films formed by vacuum deposition, *Archives of Applied Science Research*, **5**(2) (2013) 167-171.
- B.57. Photoconductivity studies of hybrid ZnTe/MgPc thin films prepared by physical vapour deposition, *Archives of Physics Research*, **4**(1) (2013) 22-28.
- B.56. Synthesis and structural, optical and electrical properties of TiO<sub>2</sub>/SiO<sub>2</sub> Nanocomposites, *J Mater Sci*, DOI 10.1007/s10853-013-7167-2 (2013).
- B.55. An investigation on the effect of porosity on the transport properties of porous silicon, *Int J Microstructure and Materials Properties*, **8** (6) (2013) 462-477.
- B.54. Synthesis and characterization of TiO<sub>2</sub>/SiO<sub>2</sub> nano composites for solar cell Applications, *Appl Nanosci.*, **2**, (2012) 429-436.
- B.53. Natural dye sensitization of TiO<sub>2</sub> Thin Films using Lawsonia dye extracted from Lawsonia Inermis for Solar Cell Applications, *Archives of Applied Science Research*, **4** (5), (2012) 2122-2132.
- B.52. Investigation on the variation of conductivity and photoconductivity of CuO thin films as a function of layers of coating, *Archives of Applied Science Research*, **4** (5), (2012) 2174-2183.
- B.51. Synthesis and Characterization of Nanocrystalline SnO<sub>2</sub> synthesized by precipitation method, ISBN. 978-93-82062-63-9.
- B.50. Determination of optical constants of Al doped ZnO thin films from UV-Vis-NIR spectra, *Proceedings of National Conference on Frontiers in Spectroscopy*, (NCOFIS-2012) 276-282 (ISBN 978-93-80264-60-0).
- B.49. Photoconductivity of Multilayered Thin films of Nanostructured Aluminium doped ZnO, (NASAM-2012), *Advanced Materials in Physics* 9-18 (ISBN-13: 978-81-909300-6-2).
- B.48. Photoconducting and photoresonance studies on multilayered thin films of aluminium doped zinc oxide, *Ind. J. Sci and Tech* **5**(3) (2012) 2360-2363.
- B.47. Synthesis and Characterization of TiO<sub>2</sub>/SiO<sub>2</sub> Nano Composites for Solar Cell Applications,

- Appl. NanoScience*, DOI 10.1007/s13204-012-0060-5.
- B.46. Effect of Annealing on the Optical and Photoconductivity Studies of Hybrid ZnTe/MgPc Thin Films formed by Vacuum Evaporation, In: *Thin Films and Nanomaterials*, MacMillan Advanced Research Series, Dec 2011, 165-168.
- B.45. Effect of Annealing on Optical and Photo Conducting Properties of ZnO Thin Films by Spin Coating, *J. Pure Appl. and Ind. Phys.*, **1** (4) (2011) 240-251.
- B.44. Quantum Logic as the Power of Possibilities, *Chiedza*, **13** (1) (May 2010) 95-104.
- B.43. Implications of Quantum Logic to the Notion of Transcendence, *Pensamiento*, **65** (2009) 947-958.
- B.42. Implications of Dark Matter/Dark Energy to the Understanding of Reality, *Convergence*, **11** (2009) 49-55.
- B.41. Logical approach to Quantum Reality, *Convergence*, **11** (2009) 21-32.
- B.40. Are Human Rights and Health Care Universal?: Reflections on Health Care in India, *Eubios J of Asian and International Bioethic*, **19** (4) (July 2009) 113-121.
- B.39. Isolation and characterization of biologically metal-doped semiconductor polymers, *Mater. Chem. Phy.*, **111** (2008) 517-523.
- B.38. Electrical conductivity as a tool for identification of metal contaminated fish protein, *J. Food Engineering*, **83** (2008) 405-410.
- B.37. Electrical and electroreflectance studies on ortho-chloranil-doped polyaniline, *Physica B*, **392** (2007) 20-28.
- B.36. Growth and characterization of Phthalocyanine doped anthracene crystals for photoconductivity applications, In: *Physics of Semiconductor Devices (IWPSD-2003)* Ed. K.N. Bhat and A. Das Gupta, Narosa Pub House, New Delhi (2004) pp. 1178-1180.
- B.35. Raman scattering and photoluminescence studies on O<sup>+</sup> implanted silicon, *Physica B*, **337** (2003) 36-41.
- B.34. Three-zone furnace: Apparatus to grow doped crystals from two materials which have wide difference in sublimation temperature, *J. Mater. Sci.*, **38** (2003) 555-560.
- B. 33. Organic semiconductor solar cells: For pollution free energy conversion, In: *Environment, Biodiversity and Bioethics*, F.P. Xavier et al (Ed), LIFE, Loyola College, Chennai, 2002, p. 85-95.
- B.32. Ellipsometry studies on the effect of etching time in porous silicon, *Physica E*, **15** (2002) 243-251.
- B.31. Structural investigation of copper phthalocyanine thin films using X-ray diffraction, Raman scattering and optical absorption measurements, *Phys. stat. sol. (b)*, **229** (2002) 1175-1186.
- B.30. Electrical conductivity of single crystal of anthracene around 273 K, *Bull Electrochemistry*, **18** (2002) 41-44.

- B.29. The role of traps in electrical conductivity and optical absorption in phthalocyanine-doped anthracene co-crystals,  
*J. Cryst. Growth*, **233** (2001) 583-590.
- B.28. Growth of Phthalocyanine doped anthracene crystal using three zone furnace by vacuum sublimation method,  
*J. Cryst. Growth*, **225** (2001) 168-172.
- B.27. Our Mission as Jesuits in Science,  
*Proc. Int. Conference of Jesuits in Science* (Chennai), 2001 (Jan 4-6) 18-26.
- B.26. Etch Pit Study of pure and doped Potassium Pentaborate (KB5) Single Crystals,  
*Convergence*, **2** (2000) 24-29.
- B.25. Photoelectrochemical studies on [MnMoO<sub>2</sub>(NCS)(Ox)<sub>3</sub>(H<sub>2</sub>O<sub>2</sub>)]-A novel system for Solar Energy Conversion,  
*Int. J. Energy Res.*, **24** (2000) 1351-1358.
- B.24. Growth, thermal and microhardness studies of single crystals of potassium penta borate (KB5),  
*J. Cryst. Growth*, **218** (2000) 323-326.
- B.23. Role of metal phthalocyanine in redox complex conductivity of polyaniline and aniline black,  
*J. Por. And Pcs*, **3** (1999) 679-686.
- B.22. Photoconductivity measurements in lead phthalocyanine thin films,  
*Matt. Letts.*, **41** (1999) 5-8.
- B.21. Investigation of manganese-molybdenum-diethyldithiocarbamate complex as a potential system for solar energy conversion,  
*Int. J. Energy Res.*, **23** (1999) 229-233.
- B.20. Analysis of anthracene single crystal structure using NMR spectrum and current density calculations,  
*Bull. Electrochem.*, **14** (1998) 430-432.
- B.19. pH-based conductivity studies on fish in a contaminated environment,  
*Bull. Environ. Contam. Toxicol.*, **61** (1998) 645-649 and  
In: *Modern Trends in Environmental Pollution and Ecoplanning*,  
A. Kumar (Ed), ABD Pub., Jaipur, p. 100-107.
- B.18. Solid state electrical conductivity studies on manganese-molybdenum Schiff base polymer,  
*Bull. Mater. Sci.*, **21** (1998) 403-407.
- B.17. Conductivity studies in fish in contaminated environment:  
(i) Industrial tannery, and (ii) Domestic detergent,  
*Ind. J. Environ. Prot.*, **18** (1998) 495-497.
- B.16. Role of Electric Charges in the Process of Energy Transfer in Physiology,  
*Phys. Edn.*, **15** (1998) 21-28.
- B. 15. Study of aquatic pollution due to heavy metal by protein-conductivity in fish *Clarias batrachus*,  
In: *Energy Crisis and Environment*, F.P. Xavier et al (Ed), LIFE,  
Loyola College, Chennai, 1997, p. 137-152.
- B.14. Electroreflectance analysis of organic semiconductor thin films,  
*Bull. Mat. Sci.*, **20** (1997) 651-665.

- B.13. Conduction mechanism in anthracene as a function of temperature,  
*Bull. Mat. Sci.*, **20** (1997) 317-323.
- B.12. Conduction mechanism of metal-free phthalocyanine single crystals as a function of temperature,  
*Bull. Mat. Sci.*, **20** (1997) 297-303.
- B.11. Copper phthalocyanine as an efficient dopant in development of solar cells,  
*Mat. Res. Bull.*, **32** (1997) 539-546.
- B.10. Single crystal growth of organic photoconductors: phthalocyanine,  
*Bull. Mat. Sci.*, **19** (1996) 429-435.
- B.09. Photoconductivity studies of CdSe<sub>1-x</sub>Te<sub>x</sub> thin films as a function of doping concentration,  
*Bull. Mat. Sci.*, **19** (1996) 437-442.
- B.08. Band gap study on zinc-doped cadmium sulphide,  
*Bull. Mat. Sci.*, **19** (1996) 443-448.
- B.07. Organic semiconducting polymers,  
In: *Conducting Polymers*, F.P. Xavier et al (Ed), LIFE, Loyola College, Chennai 1996, p.11-38.
- B.06. Photoconductivity in crystalline phthalocyanine,  
*Bull. Mat. Sci.*, **18** (1995) 269-275.
- B.05. Photoconductivity in thin films of phthalocyanine,  
*Bull. Mat. Sci.*, **18** (1995) 277-281.
- B.04. Photoconductivity of iodine-doped single crystals of phthalocyanine,  
*Bull. Mat. Sci.*, **18** (1995) 283-287.
- B.03. The Body Electrici: Role of electric charges in physiology,  
*Bio. Edn.*, **11** (1994) 87-93.
- B.02. World of Wonders: Study of Organic Semiconductors,  
*Caritas* **77** (1993) 24-33.
- B.01. Optical and transport properties of phthalocyanine and related compounds (abstract), *Disst. Abst. Intern. (b)* **53** (1993) 4755-B.

### C. *Inter-disciplinary Research Papers: Science and Religion*

- C.11. Science and Spirituality: Consciousness as the Meeting Point,  
In: K. Pandikattu (Ed), *Science and Spirituality: Interaction and Importance*, Center for Science and Spirituality, Los Angeles, 2024, 29-41.  
(ISBN: 978-1-957852-05-8); CSA Raj et al, *Know Quantum Science*, Arul Andar College Pub., Karumathur, 2025, pp.197-215.
- C.10. Role of Religion and Science for any Nation-Building,  
*Jeevadhara*, **LIV** (323), Sep2024, 78-88; CSA Raj et al, *Know Quantum Science*, Arul Andar College Pub., Karumathur, 2025, pp.180-196.
- C.9. Religion and Science: Are they at Crossroad,  
*Omega*, **XVII** (2018)1 137-166.
- C.8. Christian Perspectives on Science and Religion,  
*Ind.Th. St.*, **42** (4) (2005) 415-434.
- C.7. Life Beyond Death: Scientific Perspectives,  
*Omega* **2** (1) (2003) 66-79.
- C.6. Eternal flow of Time!,

- Ind. Th. St.*, **39** (1) (2002) 48-76.
- C.5. Creation in Evolution,  
*Jeevadhara* (Malayalam) **XXIX/170** (1999) 133-153 and  
*Ind. Th. St.*, **38** (1) (2001) 44-70 and *Omega* **VIII** (2) (2009) 110-128.
- C.4. Matter-Energy-Spirit,  
*Vaiharai* **3** (3) (1998) 168-187.
- C.3. Spirituality of Physics,  
*Vaiharai* **2** (4) (1997) 294-312 and *Budhi* **II** (3) (1998) 247-255.
- C.2. Science and Theology: Are they at cross-purposes?  
*Vaiharai* **1** (2) (1996) 123-133.
- C.1. Leibniz: Physics and Philosophy,  
 In: (Ed) A. Amaladoss, *Essays on Leibniz*, Satya Nilayam, Chennai (1996)  
 63-83.

**D. General (Theology, Education, Administration, Environment, etc):**

- D.144. Jesuit Higher Education: Fostering Solidarity,  
*Cenkantal*, **22**, (Dec 2025), 5-6.
- D.143. Pilgrims of Hope: Unity in Reconciliation – Ignatian and Social Perspectives,  
*IGNIS*, 2025/2, **LV/II**, 93-103.
- D.142. Ignatian Charism and the Ministry of Education,  
*Cenkantal*, **21** (Sep2025), 17-18.
- D.141. Physics as the Window to learn from Nature,  
 In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*,  
 Arul Anandar College Pub., Karumathur, Madurai, 2025, pp.viii-xliii.
- D.140. Science: An Invitation to Explore, to Experience, and to Explain,  
 In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*,  
 Arul Anandar College Pub., Karumathur, Madurai, 2025, pp.App. 1-33.
- D.139. Artificial Intelligence: Understanding and Collaborating,  
 In: CSA Raj and F.P. Xavier, *Properties of Matter and Acoustics*,  
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- D. 138. Recent Trends in Artificial Intelligence,  
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#### **E. Articles on Francis P Xavier:**

- D.01. Rev Dr. Francis P Xavier SJ – Architect of Modern Education for the Marginalized and a Multidisciplinary Intellectual,  
S. Amalraj et al (Ed), *The Contribution of the twentieth century's Jesuits in Tamilnadu to Tamil Literature and Society*, Loyola College, Chennai, 2025, 109-118

#### **Symposia/Seminars organized :**

18. International: **Surging the Waves of Challenges**,  
DACA Research Seminar-2025 (12-13Dec2025)
17. National: **From Hierarchy to Equity: Subaltern Insights into Tamil Cultural Milieu**,  
DACA Research Seminar-2024 (10-11 August 2024),  
Dr Ambedkar Cultural Academy (DACA), Madurai
16. National Conference on: **Engineering Response to Climate Change**  
at Loyola-ICAM College of Engineering and Technology (LICET),  
15-17 Jan 2016.
15. **14th Asian Conference on Bioethics**,  
LIFE and LICET collaboration (Nov 19-23 2013).
14. National Conference on '**Green Energy for Sustainable Development**',  
Loyola College (Jan 7-8, 2011) – Convener.
13. International conference on '**Recent Trends in Sensor-Development for the Assessment and Management of the Environment**',  
Loyola College, Chennai (Jan 8-10, 2009) - Convener
12. National conference on '**Biodiversity, Bioresources and Biotechnology for sustainable livelihood of rural community**',  
Loyola College, Chennai (Jan 18-20, 2008) - Convener
11. National conference on '**Environmental Biosensors**',  
Organizing Secretary, Loyola College, Chennai (Jan 11-12, 07).
10. International Conference on "**Environment and Bioethics**",  
Convener, Loyola College, Chennai (Jan 1999).
09. Seminar on "**Materials for Energy Conversion**",

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08. National Conference on “**Energy Crisis and Environment**”,  
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  07. Seminar on “**Electrophysiology**”  
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  06. **Seventh National Seminar on Crystal Growth**,  
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  05. Seminar on “**Solar Energy Prospects for the Future**”,  
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  04. National Conference on: **Fundamentals of Crystal Growth**,  
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  03. Seminar on “**Conducting Polymers**”,  
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  02. Seminar on “**Recent Trends in Laser Applications**”  
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**Papers presented in Symposium/Seminar/Conference:** (authored/coauthored)

71. **Green Inhibitors: Prevention Better than Cure**,  
Int Nat Conference on Advancements and Recent Trends in Material  
Development and Coating Technology, LIFE, Chennai, 07Mar2025.
70. **Quality Education: Formation for all Seasons**,  
National Seminar on Sustainable Development Goals, LIFE, Chennai,  
03-04Mar2025.
69. **Artificial –intelligence is a boon or bane for Environmental  
management?**,  
23<sup>rd</sup> Asian Bioethics Conference, Bangkok, Thailand, 27Mar2025.  
(W/ Selvanayagam)
68. **Distance Education – Complete or Complement?**,  
International Conference on ‘Open Educational Resources of Distance  
Education for the Marginalized Learners’, Bharathidasan University,  
Trichy, 19-20Dec2024 (Invited talk).
67. **Bioethics in Harmony with Life and Nature**,  
21<sup>st</sup> Conference of International Society for Clinical Bioethics,  
Ritsumeiken Asia Pacific University, Beppu City, Oita, Japan,  
24Dec2024 (Online by Dr Selvanayagam)
66. **Dalit Option and Tamilnadu Jesuits**,  
DACA Research Seminar-2024: From Hierarchy to Equity – Subaltern  
Insights into Tamil Cultural Milieu, 10-11Aug2024 @ Dr Ambedkar  
Cultural Academy, Madurai.
65. **Science: Invitation to Explore, to Experience, and to Explain**,  
International Research Conference for Children – 2024 (IRCC-24),  
Ernakulam, 13-14Jul2024.
64. **Corrosion and its Eradication: What We learn from Nature**,  
National Conference on Advancement and Recent Trends in Materials

- Development and Coating Technologies in Corrosion, Chemistry Dept and LIFE, Chennai, 07Mar2024.
63. **Climate Crisis and Biodiversity – Mitigation for sustainable Development and Livelihood**,  
National Conference, Loyola Institute of Frontier Energy (LIFE), Chennai and Fakir Mohan University, Balasore (Odisha), 22-23Feb2024
  62. **Ethical Issues and Challenges in New Normal Covid-19 in Health Services**,  
22<sup>nd</sup> Asian Bioethics Conference, International Medical University, Kuala Lumpur, 15-17 May 2023.
  61. **Ethical issues and challenges in new normal COVID-19 in education**,  
International conference on new normal COVID-19 and ethical issues related to public health and education, LIFE, Chennai, 12<sup>th</sup> and 13<sup>th</sup> December, 2022.
  60. **Universal peace building through effective implementation of Environment Ethics through positive thinking and effective action –**  
19<sup>th</sup> International Scientific Conference of ISCB, Okayama, Japan, 12 Nov 2022.
  59. **Bioethics and Global Health with reference to hand washing in Children**,  
Conference on Bioethics, Sustainability and Global Health, 8th December 2018. LICET, Chennai, India.
  58. **Community based Disaster Preparedness and Management to face the Impact of Climate Change with Reference to Children – Asian Bioethics Association (ABA) Conference**, Kaohsiung, Taiwan, 14 Nov 2018.
  57. **Bioethics of Climate Change and Adaptation for Children and Youth Wellbeing in African and Asian Regions –** organized by Africa Asia International Forum on Public Healthcare Bioethics for Children and Youth, 22-24 Aug 2018, Durban (South Africa)
  56. **Education of the Marginalized –** International Association of Jesuit Universities, Bilbao (Spain) – Jul2018.
  55. **Bioethics and Global Public Health Training Workshop -** organized by American University of Sovereign Nations (USA), Medical Laboratory Association of Nepal and Eubios Ethics Institute, New Zealand, Kathmandu, Nepal 1-3, Mar2018 –  
Title: “**Bioethics and Global health with reference to Hand washing in Children**”.
  54. International Conference on Materials for Energy and Environment (ICMEE2018), Feb 22 - 23, 2018 - organized by Loyola Institute of Frontier Energy (LIFE), Loyola College, Chennai 600034.  
Title: “**Energy, Environment and sustainable development for the survival of Humanity**”
  53. Joint Bioethics Workshop – Organized by Gangneung-Wonju National University (GWNNU) and American University of Sovereign Nations (AUSN) – Title: **The Jesuit Worldwide Learning Initiative towards**

- Holistic Formation of the Marginalized through Higher Education to transform the World** –  
 Research Institute of Natural Science, Gangneung-Wonju National University, Gangneung, Republic of Korea, 30 October 2017.
52. 18<sup>th</sup> Asian Bioethics Conference (ABC 18) –  
 Title: **Is Bioethics relevant today for Climate Change Deliberations and the Future of Health?** –  
 Organized by the Korean Bioethics Association -  
 Avison Biomedical Research Center, Yonsei University, Seoul, South Korea, Oct 25-27 2017.
51. Bioethics for Biodiversity: Conflicts between over exploitation and Preservation. Resolving Biodiversity conflicts: Comparisons between India and Ecuador.  
 PERNAS 8 JBHKI & ABC 17, Yogyakarta, Indonesia (12-17) November, 2016.
50. 17<sup>th</sup> Asian Bioethics Conference –  
 Title: **“Resolving Biodiversity Conflicts: Comparison between India and Ecuador”** – organized by Peernas 8 JBHKI & ABC 17, jointly organized as Bioethics and Humanity 8<sup>th</sup> National meeting of Jaringan Bioetka dan Humaniora Kesehatan, Indonesia (Nov 14-17 2016).
49. 16<sup>th</sup> Asian Bioethics Conference –  
 Title: **“The Ethics of eWaste Management”**  
 – organized by St Paul University (Quezon City) and De La Salle University (Manila), 4-8 Nov 2015.
48. 16<sup>th</sup> Asian Bioethics Conference –  
 Title: **“The Relevance of Ethics and its essential Role in modern Biotechnology”** – organized by St Paul University (Quezon City) and De La Salle University (Manila), 4-8 Nov 2015.
47. Bioethica Universitaria 2015 –  
 Title: **“Need of Bioethics in Energy and Environmental Research”** - organized by the Central University of Ecuador, Quito (28th and 29th April, 2015).
46. Community based disaster preparedness and enhancement of sustainable livelihood for the inhabitation of Pulicat lake. Looking beyond disaster international youth forum 4, held in St.Paul’s University, Manila, Philippines from April 2-6, 2014.
45. The first UNESCO conference on Ethics education for All "searching of learning to live together: Asia Pacific" –  
 Title: **"Ethics curriculum development for Higher Educational Institution"**, organised by UNESCO, Bangkok (28th to 30th October, 2014).
44. First International Conference of the Asia-Pacific Society for Agricultural and Food Ethics at Chulalongkorn University, Bangkok (Thailand) –

- Title: **‘Ethical Dilemmas towards Food Security in Indian Scenario and the Role of Higher Educational Institutions’** (Nov 28-30 2013).
43. 1<sup>st</sup> Biennial international congress on ‘Urban Green Spaces’, organised by Center for Urban Green spaces, Aravali foundation for Education, Delhi Government and Department of Environment, government of India, New Delhi (5<sup>th</sup> to 7<sup>th</sup>, March, 2012) –  
Title: **Role of Educational Institutions in developing Green Spaces in the Urban Areas.**
42. International Conference on Frontiers in Materials Science for Energy and Environment (ICFMS 2012),  
Loyola College, Chennai (Jan 11-13, 2012).
41. Role of Educational Institutions in developing Green Space in the Urban Areas.  
1<sup>st</sup> Biennial International congress on Urban greenspaces (5-7 March, 2012), New Delhi.
40. Ethics and Climate change: What is our Role and Responsibility as Custodians of our Mother Earth?  
Ethics and climate change: energy Ethics after Fukushima (29<sup>th</sup> to 31<sup>st</sup> August, 2011), Bangkok, Thailand.
39. Need for development of ethics curriculum for different streams of students in higher education institutions. Ethically inclusive practices and policies (9<sup>th</sup> to 11<sup>th</sup>, November, 2011).
38. 2<sup>nd</sup> International Conference on Advanced Nanomaterials and Nanotechnology (ICANN - 2011), Indian Institute of Technology, Guwahati, Assam (Dec 8 – 10<sup>th</sup> 2011)
37. National Seminar on: Global Warming and Climate Change on: “Issues and Challenges in 21<sup>st</sup> Century India”, Suri Vidyasagar College, West Bengal, Nov 20-21, 2010.
36. National Seminar on ‘Reimagining the Relationship between Christianity and Dalit Liberation’  
Title: **“Anatomy of Humiliation and Signs of Self-Respect”**, Asian Centre for Cross-Cultural Studies, Panayur, Chennai, Sep 10<sup>th</sup> and 11<sup>th</sup>, 2010.
35. The Eleventh Asian Bioethics Conference (ABC 11)/Fifth UNESCO Asia-Pacific School of Ethics Roundtable Bioethics and Policy Conference,  
Title: **“Anthropogenic Activities and Ethical Dilemma towards Climate Change and Future Security”**, National University of Singapore (NUS), Singapore – Aug 01-02, 2010.
34. National Conference on: ‘Renewable Energy Sources’, Yadava College, Madurai – Mar 4-5, 2010.
33. Workshop on Scientific Writing and Presentation, Women’s Christian College, Chennai – Feb 18<sup>th</sup> 2010.
32. International Conference on Women and Education,  
Immaculate College of Education, Puducherry – Feb 5-6, 2010  
Title: **Women in Science and Technology** – Panel discussion)
31. World Commission on the Ethics of scientific Knowledge and Technology –

- COMEST, Petaling Jaya, Selangor, Malaysia – June 15-19 '09  
 Title: **Relevance and Experience of teaching Bioethics to undergraduate students in Arts and Science College** - A case study)
30. 9<sup>th</sup> Asian Bioethics Conference (UNESCO), Yogyakarta, Indonesia, Nov 3-7 '08  
 Title: **Are Human Rights and Health-Care universal?**
  29. UNESCO Conference on Ethics and Energy Technologies, TN Dr Ambedkar Law College (in collaboration with UNESCO Bangkok), Sep 22-23, 08  
 Title: **Energy Equity**
  28. Metanexus Institute's 9<sup>th</sup> Annual Conference,  
 Title: **Subject, Self, and Soul**,  
 Universidad Pontificia Comillas, Madrid, July 13<sup>th</sup> to 17<sup>th</sup> '08. (Invited participant from India)
  27. 6<sup>th</sup> National Conference on the emerging trends in crystal growth and nano materials, Loyola College, Chennai (Feb 28-29, 2008).
  26. National Seminar on Internal Quality Assurance System Innovations and Initiatives, Fatima College, Madurai (Feb 19-20 2008).
  25. International Conference of Jesuits in Science and Religion, Pune (Jan 2<sup>nd</sup> 07).
  24. Multidisciplinary Research, Brainstorming session on Multidisciplinary Research, Loyola College, Chennai (Dec 8-9 '06).
  23. National Workshop on Student Quality Circles –  
 Title: **Developing Methodologies and Strategies to ensure Quality Education**, St Theresa's College, Eluru (Sep 26, 2006)
  22. 4<sup>th</sup> ISE Spring Meeting, Singapore (Apr 17-20, 2006).
  21. International Symposium on Chemical Education, Loyola College, Chennai (Jan 4-7, 2004).
  20. National seminar on 'Environment, Biodiversity and Bioethics –  
 Title: **Current trends and future directions**',  
 Loyola College, Chennai (Sep 20-22 '01).
  19. International conference on 'Environment and Bioethics', Loyola College, Chennai (Jan '99).
  18. DAE Solid State Physics Symposium, Dept of Physics, Kurukshetra University, Kurukshetra, Haryana (Dec 27-31, '98)
  17. 4<sup>th</sup> World Congress of Bioethics, Nihon University, Tokyo, Japan (Nov '98).
  16. 2<sup>nd</sup> International Symposium on Phthalocyanines, Pollock Halls, University of Edinburgh, Scotland (Sep 21-23 '98).
  15. Seminar on "Materials and Characterization", Central Electrochemical Research Institute, Karaikudi (July 13 '98)
  14. National symposium on 'Environmental Pollution and Ecoplanning', S.K. University, Dumka (Mar 20-21 '98).
  13. National Conference on Advances in Condensed Matter Physics, Raman School of Physics, Pondicherry University, Pondicherry (Feb 26-28 '98).
  12. National Seminar on Advances in Science and Technology Polymeric Materials, Indian Institute of Technology Madras, Chennai (Dec 19-20 1997).
  11. Chemists' Meet 1997, Indian Institute of Technology Madras, Chennai (Dec 1997).

10. National Conference on Energy Crisis and Environment, Loyola College, Chennai (Mar 7-8 1997).
09. Proceedings of the 4<sup>th</sup> National Seminar on Physics and Technology of Sensors, Sardar Patel University, Gujarat (Feb 1997).
08. Symposium on Current Status on Solar Energy Materials and Systems (Invited Paper), Anna University, Chennai (Feb 1997).
07. Seventh National Seminar on Crystal Growth (Invited Paper), Alagappa University, Karaikudi (Jan 1997).
06. National Conference on Fundamentals of Crystal Growth, Anna University, Chennai (Jan 1996).
05. Sixth National Seminar on Crystal Growth, Anna University, Chennai (Feb 1995).
04. Fifth National Seminar on Crystal Growth, Anna University, Chennai (Nov 1993).
03. American Physical Society Meeting, Washington, USA (Apr 1991).
02. American Physical Society Meeting, Cincinnati, USA (Mar 1991).
01. American Physical Society Meeting, St Louis, USA (Mar 1989).

**Visiting Scientist** : Jesuit Institute at Boston College, USA  
 June 2010, May-June 2009  
 Boston College, Chestnut Hill, USA  
 Summer research (1993-2016)  
 Stuttgart University, Germany  
 October 1998 – September 1999

**Reviewer of Research Articles** : *Journal InderScience Submissions*  
*Int. J. of Business Innovation and Research*  
 (Jun2025)  
*Current Journal of Applied Science and Technology* (Jul2025)

**Research Institute Named:** **Antony-Xavier** Interdisciplinary Scholastics (AXIS)  
 DACA, Madurai (In honour of Fr **Antony** Raj SJ and Fr Francis P **Xavier** SJ)

**Patents:**

- a. Digital Humidity Sensor (LIFE – 934/Che/2003 – 2008: extended for 20 years)
- b. ‘Temperature sensitive three-zone furnace’ (Govt of India – File No. MAS/2002/964 – Patent pending)

**Resource Person:**

- For the Religious Congregations: i. Retreat; ii. Orientation programs; iii. Religious Governance; iv. Guide for Chapter Meetings
- Consultant for Administrative Planning and Academic Fundraising
- **On Time Management**

- over 100 workshops conducted in India, Sri Lanka, Thaiwan, Hongkong)
- on **Internal Quality Assurance System Innovations and Initiatives**,  
Fatima College, Madurai (Feb 19-20 2008).
  - on **Student Quality Circles – Developing Methodologies and Strategies to ensure Quality Education**,  
St Thresa’s College, Eluru (Sep 26 2006).
  - on ‘**Individual and group Effectiveness and Time Management**’  
AIACHE National Program for College Teachers, Bangalore (May 2006).
  - on “**Personality Development and Counseling**”  
Sri Y.S.R.R. Loyola Degree College & Sri Y.S.R.R. Polytechnic College, Pulivendla (Dec 1997).
  - on “**College Autonomy**”  
St Joseph’s College, Irinjalakuda (Jan 1996),  
and Vimala College, Thrissur (Mar 1996)
  - on “**Deemed University Status**” (Nov 1995)  
Loyola College, Chennai, St Joseph’s College, Trichy,  
Arul Anandar College, Karumathur, St Xavier’s College, Palayamkottai
  - Reviewer: InderScience Pub - Int. J. of Indian Culture and Business Management (2018 - )

#### **Awards**

- : 1. SSLC – National Merit Scholarship (1969)  
2. BSc (Distinction) - Merit Scholarship (1977)  
3. MSc (Uni. Rank) - Merit Scholarship (1979)  
4. Yeddanapalli Research Award (1996, 1997 & 1998)  
5. Asia/Pacific: Who’s Who (1998, p. 426)  
6. Best Citizens of India Award (1999)  
7. Man of Achievement Award (1999)  
8. Best Paper Award: (July 1997)- For the research

paper presented in the National Conference in Central Electrochemical Research Institute (CECRI), Karaikudi, India.

9. Best Paper Award: (Jan 2004) – For the research paper presented in the International Symposium on Chemical Education, Loyola College, Chennai, India.

#### **Research Guide:**

**PhD:** Completed

1. A.R. Inigo – Conducting Polymer (**UK**)
2. Lawrence Selvaraj – Co-Crystal of Pthalocyanine and Anthracene (**USA**)
3. Prabakaran – Porous Silicon (**Portugal**)
4. Arockiadoss – Conductivity of fish protein in polluted environment (**MK Uni.**)
5. Danis Ponniah – Structure analysis of organic photoconductors using Raman Scattering (**Salem**)
6. Merline Shyla – Organic dye for solar cell fabrication (**LCC, Chennai**)

7. Immanuel – Organic Thin Film Transistors: Research in Italy (**Germany**)
8. Rajesh – Solar cell fabrication using sol-gel method (**Chennai**)
9. Ganesh – Co-crystallization for solar cell (**Chennai**)
10. Jerome Manyahi – Transcendence in Quantum Mechanics (**Tanzania**)
11. CSA Raj – Inorganic-Organic photoconductivity (AAC, **Madurai**)
12. Arun Kumar – organic-organic photodiode (**Japan**)

**MPhil:** (Theses completed)

19. Photoelectric Response of Carbon-Nitrogen doped TiO<sub>2</sub> Thin Film  
- Bijay (Jul 2010).
18. A Study on the Gravitational Force –  
- Rajesh (Jul 2010).
17. Photoconductivity Studies of Inorganic-Organic Compounds: ZnO, CuPc, Pani –  
A. Vidyaganga (Sep 2008).
16. Enhancing the Photoconductivity of Copper Phthalocyanine doping with Perylene –  
A. Amala Rani (Sep 2008).
15. Growth of n-Zinc Oxide on various substrates using pulsed laser deposition (PLD) and  
its photoconducting properties –  
G. Naresh Kumar (Sep 2007).
14. Investigation of transport properties as a function of porosity in porous silicon –  
J. Merline Shyla (Oct 1999).
13. Transport properties of n-type silicon and porous silicon – Jolly Sebastian (Sep 1998).
12. Conductivity studies on p-type silicon and porous silicon – X. Beatrice Jasmine  
Jayanthi (Sep 1998).
11. pH-based conductivity studies on fish in contaminated environment - T. Arockiadoss  
(Dec 1997).
10. Analysis of single crystal of anthracene with respect to transport properties - S.  
Lawrence Selvaraj (Dec 1997).
09. Structure analysis of organic compounds using Fourier transformation Raman  
spectroscopy - J. Danis Ponniah (Nov 1997)
08. Transport of charge carriers in polyaniline doped with copper phthalocyanine - M.K.  
Rosy (Oct 1997).
07. Construction of solar cells using manganese-molybdenum diethyldithiocarbamate  
complex and photoconductivity studies on manganese (II) molybdate - G. Balaji  
(Apr 1997).
06. Transport of charge carriers in fish protein - A. Claude (Dec 1996).
05. Generation, absorption and transport of charge carriers in CuPc - A. Arulselvi (Aug  
1996).
04. Conduction mechanism of metal-free phthalocyanine single crystals as a function of  
temperature - Ayona Simon (Nov 1995).
03. Bandgap study of anthracene as a function of temperature - Jeena V. Joseph (Oct 1995).
02. Bandgap study on zn-doped cadmium sulphide - T.K. Anee (Sep 1994).
01. Photoconductivity studies of CdSe<sub>1-x</sub>Te<sub>x</sub> thin films as a function of doping  
concentration - D. Ravichandran (Aug 1994).

**Membership**

:

1. Fellow of Society of Environmental Sciences (Life member since 1998)
2. American Association of Physics Teachers (1997-1999)
3. American Physical Society (1986-1993)
4. Indian Physics Association (1992 - )
5. Indian Association of Physics Teachers (Life member since 1995)
6. The Society for Advancement of Electrochemical Science and Technology (Life member since 1997).

**Academic Positions**

:

1. Global Chief Academic Officer, JWL (2023); and Vice President for Academics and Research, Jesuit Worldwide Learning (JWL), Geneva, 2017-2019.
2. Gasson Professor @ Boston College, USA (2017-2018)
3. Rector and Vice President, Loyola Institutions, Chennai (2019-2023).
4. Founder-Director, Loyola-ICAM College of Engineering and Technology (LICET) (2009-2016)
5. Provincial of the Jesuit Madurai Province (1999-2005); and Chairman of the Governing Bodies of Jesuit Colleges and School in Tamilnadu (1999-2005)
6. Member of Board of Studies for Crystal Research, Alagappa University, Karaikudi (1997-2000).
7. Founder-Director, Loyola Institute of Frontier Energy (**LIFE**), Loyola College, Chennai (1995- 2010)
8. Senate Member, Satyanilayam (College of Philosophy), Chennai (1995-1997 and 2015-2017).
9. Member of the Governing Body, Loyola College, Chennai (1994-1998)
10. Academic Vice Principal, Loyola College, Chennai (1993-1998)
11. Chief Editor of '*Convergence*', a quarterly interdisciplinary journal devoted to physical and life sciences with a focus on energy and environment, LIFE (1999 - 2016)

**Webinar Talks: YouTube Links****Science:**

Physics and Chemistry in unraveling the mysteries of Biology (Tokyo 2017)

<https://www.youtube.com/watch?v=ot0XuP3C8cU>

Science and Religion – Are they at Cross-Roads? (Gasson Lecture, BC 2018)

<https://www.youtube.com/watch?v=ANmN1uxQuhI>

<https://www.youtube.com/watch?v=ANmN1uxQuhI&t=240s>

Loyola (Chennai): <https://www.youtube.com/watch?v=ANmN1uxQuhI&t=240s>

**Dark Matter and Dark Energy**

<https://www.youtube.com/watch?v=aqpN7pzl64Y>

LICET: <https://www.youtube.com/watch?v=4UswrgkJy8Y&feature=youtu.be>  
 Creighton: <https://vimeo.com/user38763154/review/331845381/4ea186c809>  
<https://jaydrop.creighton.edu/message/KeKXOkd2TmejS9ayM27CxG>

Paper Presentation

[https://www.youtube.com/watch?v=XB\\_IB69k9pc](https://www.youtube.com/watch?v=XB_IB69k9pc)

### **Time Management:**

Life Voyage: Doing vs Being (Time Management)

<https://www.youtube.com/watch?v=dCuVSYViMvg>

<https://youtu.be/onKHhf7e9Ig> (<https://www.youtube.com/watch?v=onKHhf7e9Ig>)

Time Management as Energy Management

<https://www.youtube.com/watch?v=yinw-RXizlg>

Time Management Matrix and Multitasking

<https://www.youtube.com/watch?v=E4nUf7bbIY0>

### **Health Care:**

Stress and Conflict Management

<https://www.youtube.com/watch?v=k-y0z-UAbwQ>

Befriending Stress: Stress Management in the Context of Covid-19

<https://www.youtube.com/watch?v=KeK2OdshM84>

Motivation and Goal-Setting

<https://www.youtube.com/watch?v=N7IrVwSEbvU>

Decision-Making and Discernment

<https://www.youtube.com/watch?v=dofa5eGXbOA>

### **Jesuit Perspective:**

Perspectives of Jesuit Higher Education

<https://www.youtube.com/watch?v=nygz9EbD24g>

Jesuit Education as Mission (Ignatian Novena)

<https://www.youtube.com/watch?v=-j4HpHskKF8>

Ignatian Governance (Ignatian Novena)

<https://www.youtube.com/watch?v=ZPkEXDZl6Cs>

Encountering Life (Ignatian Novena)

<https://www.youtube.com/watch?v=ADkISu1zRAU>

The Art of Spiritual Conversation

<https://www.youtube.com/watch?v=fDDLW4r95hw>

Ignatian Integration of Head, Heart and Hand (02Jul2021)

<https://youtu.be/7cFkv7Nhmxo>

**Social:**

Healing the Broken World

<https://www.youtube.com/watch?v=muSC4CbeBIc>

Marching with the Migrants

<https://www.youtube.com/watch?v=dpshMFYptJE>

<https://www.youtube.com/watch?v=XRFVQDLz844>

Jesuit Universal Apostolic Preferences

[https://www.youtube.com/watch?v=w\\_zlVrSIxts](https://www.youtube.com/watch?v=w_zlVrSIxts)

Suicide – A Solution?

<https://www.youtube.com/watch?v=ftYXVFs7syM>

Christmas Message (2019)

<https://www.youtube.com/watch?v=yrianwOhPnQ>

**Leadership:**

Biblical Leadership

<https://www.youtube.com/watch?v=iEbpGDILYjA>

Global Contributions of the Jesuits: Becoming All for All

<https://www.youtube.com/watch?v=G4eFxt2IGYg>

<https://www.youtube.com/watch?v=bgJbMLcTcxY>

**International Webinar for the Religious Leaders: Sep2023**

Transformational Leadership (Thalir – 12Sep2023)

<https://youtube.com/live/NfjTauUG4p8>

Decision Making and Discernment (Thalir – 13Sep2023)

[https://youtube.com/live/c\\_0CbXseRt4](https://youtube.com/live/c_0CbXseRt4)

Synodality of the Church (Thalir – 14Sep2023)

<https://youtube.com/live/t5Oj-YQ5Nm4>

Spiritual Conversation (Thalir – 15Sep2023)

<https://youtube.com/live/EljCgjOK-UA>

**Webinar for the Religious Leaders (International): Oct2023**

Administration and Time Management (Thalir – 10Oct2023)

<https://youtube.com/live/XNN4Sr6Z0CY>

Pastoral Time Management (Thalir – 11Oct2023)  
<https://youtube.com/live/hDIAwQ5W8Ng>

Mid-Life Crisis Management (Thalir – 12Oct2023)  
<https://youtube.com/live/WMRZb7aEG8U>

Stress Management (Thalir – 13Oct2023)  
<https://youtube.com/live/oNW2pVCx1iI>

**Webinar for the Religious Leaders (International): Jan2024**

Challenges to Religious Leaders (Thalir – 15Jan2024)  
<https://youtube.com/live/LwvdB94vYAk>

Growing in Godness (Thalir – 16Jan2024)  
[https://youtube.com/live/\\_Q1dVMqIDqc](https://youtube.com/live/_Q1dVMqIDqc)

Ascending Awareness and Descending Grace (Thalir – 17Jan2014)  
<https://youtube.com/live/IbkesZoA8aM>

Religious Commitment: Ministry, People, and Leadership (Thalir – 18Jan2014)  
<https://youtube.com/live/xHvdtgKrW5U>

Religious Life: Inner Joy (Thalir – 19Jan2014)  
<https://youtube.com/live/9tFMU7ThZrk>

AI: A Catholic Perspective

Cf. <https://youtu.be/ODmGy2QH0rY?si=NZdYy6DbQsmnu8ZR>

Cf. <https://francispaxaversj.com/lecture-videos/?playlist=70dabd1&video=a3b337d>

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