

## Profile of Principal

1. Name: *Prof.Dr. P Sureshkumar*
2. Permanent Address: *Krishnakripa House,  
Thiruvonam Nagar.,  
CUSAT(PO), Ernakulam  
District 62022  
Telephone: 91-484-5575191*
3. Address for Communication: *Principal, Model Engineering College,  
Thrikkakara, Cochin, Kerala- 682 021,  
Telephone: 91-484-42577379,  
91-484-42575370  
E-mail: [principal@mec.ac.in](mailto:principal@mec.ac.in)*

### 4. Educational Qualifications

SL. No	Degree	University/ Institute	Specialization	Class/ Division
1	Ph. D	Cochin University of Science & technology	Optical Fiber Sensors	First Class
2	M. Tech	University of Kerala	Microwave Engineering	First Class
3	B. E	Madurai Kamaraj University	Electronics & Communication Engineering	First Class

### 5. Experience

18 years experience in the academic field in the capacity of Asst. Professor and Professor, including 5 years Administrative experience. Joined IHRD service on 06.07.1990. Transferred and posted in the present institution on 21.02.2007.

## 6. Subject taught

- a) *OptoElectronics*
- b) *MicrowaveEngineering*
- c) *BasicElectronics*

## 7. Papers published in international Journals

1. P Suresh Kumar, C P G Vallabhan, V P N Nampoore, V N Sivasankara Pillai and P Radhakrishnan, 'A fibre optic evanescent wave sensor used for the detection of trace nitrites in water' Journal of Optics A: Pure and Applied Optics, Page no.247-250, Volume4, November3, May 2002.
2. P Suresh Kumar, Thomas Lee S, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, 'Design and development of an LED based fiber optic evanescent wave sensor for simultaneous detection of chromium and nitrite traces in water' Optic Communication, vol 214/1-6 pp 25-30 Dec 2002
3. P Suresh Kumar, Thomas Lee S, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, 'Fiber optic evanescent Chromium sensor', Proceedings of SPIE – International Society for Optical Engineering, Vol 4904-61 Page no.307-313, (2002)
4. P Suresh Kumar, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, 'Long periodic grating in multimode fiber for measuring traces of chromium in water' Proceedings of SPIE – International Society for Optical Engineering, Vol 5116-46, Page no.348-352 (2003)
5. P Suresh Kumar, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, 'LED Based Fiber Optic Evanescent Wave Ammonia Sensor', Proceedings of SPIE – International Society for Optical Engineering, Vol 4946-24 Page no.166-173, (2003)
6. P Suresh Kumar, Abraham V S, C P G Vallabhan, V P N Nampoore and P Radhakrishnan, 'Fiber optic evanescent wave sensor for ammonia gas' Proceedings of SPIE – International Society for Optical Engineering, Vol 5280-108 (2003)
7. P Suresh Kumar, Abraham V S, C P G Vallabhan, V P N Nampoore and P Radhakrishnan,

- 'Long periodic grating in multimode fiber for measuring traces of chromium in water'  
Proceedings of SPIE – International Society for Optical Engineering, Vol 5279-61 (2003)
8. P. Suresh Kumar, Dinesh Kumar. R, C. P. G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan 'Trace Detection of Nitrites in water using Long Periodic Grating in multimode optical fiber' Asian Journal of Physics (In Press)
  9. Thomas Lee S, R Dinesh Kumar, P Suresh Kumar, P Radhakrishnan, C P G Vallabhan & V P N Nampoori, Long period gratings in multimode fibers: application in chemical sensing, Optic Communication, vol 224 pp 237-241 (2003)
  10. Thomas Lee S, P Suresh Kumar, K P Unnikrishnan, V P N Nampoori, C P G Vallabhan, S Sugunan and P Radhakrishnan, Evanescent Wave Fiber Optic Sensors for Trace Analysis of Fe<sup>3+</sup> in water, revised version sent to Measurement Science and Technology.
  11. Thomas Lee S, P Suresh Kumar, K Geetha, P Radhakrishnan, C P G Vallabhan & V P N Nampoori, A microbent optical fiber for refractive index measurement, Proceedings of SPIE – International Society for Optical Engineering, Vol 4920-38 (2002)
  12. Thomas Lee S, Nibu A George, P Suresh Kumar, P Radhakrishnan, C P G Vallabhan and V P N Nampoori, Chemical sensing with microbent optical fiber, Opt. Lett. 20, 1542-1543 (2001)
  13. Thomas Lee S, P Suresh Kumar, P Radhakrishnan, C P G Vallabhan & V P N Nampoori, Macrobending in optical fiber for weight and displacement measurement, Proceedings of SPIE – International Society for Optical Engineering, Vol 4946-18 (2002)

#### Papers presented in conferences/seminars

1. P Suresh Kumar, C P G Vallabhan, V P N Nampoori and P Radhakrishnan, Long periodic grating in multimode fiber for measuring traces of chromium in water, SPIE Conference on Smart Sensors, Actuators, and MEMS, Canary Island, SPAIN, May 18-20 (2003).
2. P Suresh Kumar, C.P.G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan, Fibre Optic Evanescent Ammonia Sensor, SPIE Conference on Transducing Materials and Devices, Brugge, Belgium, Oct 28-Nov 1 (2002).

3. P Suresh Kumar, C.P.G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan, Fibre Optic Evanescent Chromium Sensor, APOC2002, Shanghai, China, Oct 14-18 (2002).
4. P Suresh Kumar, C.P.G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan, An LED based Fibre Optic Evanescent Wave Sensor for Simultaneous Detection of Chromium and Nitrate Traces in Water, Photonics-2002, TIFR, Mumbai, India, Dec 16-18 (2002).
5. P Suresh Kumar, C.P.G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan, Fibre Optic Evanescent Wave Sensor for Nitrites in Water, OPTONICS2001, Science and Technology Museum, Thiruvananthapuram, India, Aug 27-29, (2001).
6. P Suresh Kumar, Dinesh Kumar. R, Jibukumar G, C. P. G. Vallabhan, V.P.N. Nampoori, and P. Radhakrishnan, Fuel level indicator using long periodic grating in multimode optical fibers, National Laser Symposium (NLS-2002), SCTIMST, Thiruvananthapuram, Nov 14-16 (2002).
7. P. Suresh Kumar, C. P. G. Vallabhan, V.P.N. Nampoori, and P. Radhakrishnan, An LED Based Fibre Optic Evanescent Wave Sensor for the Detection of Trace Nitrites in Water, DAE- BRNS, National Laser Symposium (NLS-2001), CAT, Indoor, India, Dec 19-21(2001) (Got best poster award)
8. P Suresh Kumar, S. Thomas Lee, C.P.G. Vallabhan, V.P.N. Nampoori and P. Radhakrishnan, Fibre Optic Ammonia Sensor, SPENDE2001, Kerala University, Kariavattom Campus, Thiruvananthapuram, May 25-26 (2001).

## 8. Membership in Professional Bodies

*a) Fellow of the Institution of Electronics and Telecommunication Engineers (FIETE).*

*b) Life Member of the Indian Society for Technical Education (MISTE).*

*c) Member, Senate, Cochin University of Science and Technology*