

**Chandra Devi Raman**

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- **Assistant Professor (SS)**, Department of Civil Engineering, Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu, India (December 2010 – present)
- **Research Fellow in Verschuren Centre**, Cape Breton University, Sydney, Nova Scotia, Canada (July 2013 – present)

## **Research**

### **March 2013 – May 2013**

- Research collaboration with Dr. Martin Mkandawire, Research Chair in Mine Water Management, **Cape Breton University, Canada** on “Prediction of hydrogeochemical changes due to surface water seepage into 1B Mine Pool of Cape Breton, Canada” using subsurface flow computational software (FEFLOW) and ArcGIS 10.1

### **October 2012 – December 2012**

- Deputed for Short-term research collaboration activity with **Cape Breton University, Canada** on “Environmental Remediation Projects on Geotechnology” and the research focussed on “Mine Water Management”
- Delivered keynote on “Challenges of Environmental Sustainability in Energy Production” at Canada-India Summit on Energy and the Environment (15<sup>th</sup> Oct. 2012 to 19<sup>th</sup> Oct. 2012)

### **September 2007 – October 2009**

- Research on “Pile-soil interaction in Liquefiable Soils during Strong Earthquakes” using Geotechnical-Earthquake simulation and computational softwares (OpenSees, ABAQUS, MATLAB, GiD) in the Department of Engineering Science at **Oxford University, UK** under **FELIX Scholarship**

### **September 2004 – May 2005**

- Master thesis on “Analytical and Numerical Investigation of the Time Dependent Behaviour of Tunnels in Squeezing Rock” using ABAQUS at **Karlsruhe University, Germany** under **DAAD Scholarship**

## **Teaching**

### **December 2010 – Present**

**Assistant Professor (SS) - Dr. Mahalingam College of Engineering and Technology, Pollachi**

- Courses handling: Soil Mechanics, Engineering Geology, Foundation Engineering, Soil Mechanics Laboratory
- Received Cambridge Certificate for Teachers and Trainers – Distinction Grade
- Academic Co-ordinator (2<sup>nd</sup>, 3<sup>rd</sup> and Final year of Civil Engineering Students)
- Infrastructure Co-ordinator

### **January 2010 – November 2010**

**Assistant Professor – Sona College of Technology, Salem**

- Courses handled: Soil Mechanics, Foundation Engineering, Soil Mechanics Laboratory, Environmental Engineering, Principles of Environmental Science and Engineering
- Residential Tutor

### **September 2007 – October 2009**

**Soil Lab Demonstrator** (Academic year – 2007/08 and 2008/09) – 3<sup>rd</sup> year Undergraduate Civil Engineering students of **Oxford University, UK**

### **August 2005 – September 2007**

**Lecturer – Sona College of Technology, Salem**

- Courses handled: Foundation Engineering, Soil Mechanics, Environmental Engineering, Soil Engineering Laboratory, Construction Techniques, Equipments and Practices
- Awarded as Best Class Counsellor
- Test Co-ordinator

### **Education**

**M.Tech – Rock Engineering and Underground Structures, IIT Delhi, 2005**

- 8.9 CGPA in 10 point grade scale - Class Topper

**B.E. – Civil Engineering, Madurai Kamaraj University, 2003**

- 87.5% - University Rank Holder

### **Papers presented and published in conferences**

- Chandra Devi Raman, Jessica MacSween, Joe Shea, Rajendran Kaliaperumal, Ken Oakes and Martin Mkandawire, “Prediction of hydrogeochemical changes due to surface water seepage into 1B Mine Pool of Cape Breton, Canada”, ***Interanational Mine Water Association Conference, Denver, Colorado, USA***, Vol I, p. 441 – 447, **2013**
- Chandra Devi Raman, Subhamoy Bhattacharya, and Anthony Blakeborough, “Settlement Prediction of Pile-supported structures in Liquefiable soils during Earthquake”, ***14<sup>th</sup> World Conference on Earthquake Engineering at Beijing, China***, 04-01-0055, **2008**
- Chandra Devi R., Rao K.S., Gudehus G. and Rubel Sascha, “Time Dependent Behaviour of Tunnels in Squeezing Rock – I”, ***Indian Geotechnical Conference***, Vol.1, pp. 379-380, **2006**
- Chandra Devi R., Rao K.S., Gudehus G. and Rubel Sascha, “Time Dependent Behaviour of Tunnels in Squeezing Rock – II”, ***Indian Geotechnical Conference***, Vol.1, pp. 381-382, **2006**

### **Short term courses attended**

- Attended 5 days short term course on “Soil Mechanics and Foundation Engineering: Principles and Practices” at IIT Delhi (14-18 May 2012)
- Attended 5 days short term course on “New insights on scales in geo-data analysis to seismic interpretation” at IIT Madras (10-14 October 2011)