

## RESUME

- 1. Name & Designation:** Dr. Kalachand Sain, Senior Principal Scientist & Head, Gas-hydrate Gr. NGRI Guest Faculty at the University of Hyderabad Professor at Academy of Scientific & Innovative Research of CSIR <http://scholar.google.co.in/citations?hl=en&user=9nhStVcAAAAJ>
- 2. Specialization:** Inversion, Modeling & Special Processing of Geophysical Data
- 3. Mailing Address:** Gas Hydrates Group; NGRI; Uppal Road; Hyderabad -500 007  
Tel No. +91 040 23434799 (O); +91 040 27178319 (H)  
Fax No. +91 040 27171564; +91 040 23434651; Email: kalachandsain@yahoo.com
- 4. Date & Place of Birth:** 05-02-1964, Burdwan (W.B.)
- 5. Educational Qualifications:**

DEGREE	UNIVERSITY	YEAR	SUBJECTS
B.Sc (Hons)	Burdwan University, Burdwan	1984	Phys, Chem and Maths
M.Sc (Tech)	Indian School of Mines, Dhanbad	1988	Applied Geophysics
Ph.D.	Osmania University, Hyderabad	1995	Controlled Source Seismology
Post-doctoral	Cambridge University, UK	1997	Marine Seismics
Post-doctoral	Rice University, USA	1999	Traveltime Tomography
Post-doctoral	Rice University, USA	2003	Waveform Tomography

### 6. Current Areas of Research:

Developed numerous **innovative methods** based on comprehensive inversion algorithms for the **(i) exploration of marine gas hydrates; (ii) imaging sub-volcanic sediments onland & offshore**, and **(iii) understanding earthquake processes & tectonics in various provinces of India**, and built requisite expertise in seismic data processing, attenuation, attributes, traveltime tomography, AVO modeling, full-waveform inversion, pre-stack depth migration and rock physics modeling etc.

### 7. Publications: 132

**Peer-reviewed Scientific articles - 75; Non-SCI Papers / Unpublished reports - 57; Communicated - 12**

### 8. Countries Visited:

UK, USA, Germany, Canada, Russia, Italy, Armenia, Thailand, Taiwan, South Korea, Norway, Austria, Singapore, France, Malaysia, New Zealand, Japan & Australia.

### 9. Supervision/Training/Guidance:

Produced **Three Ph.D. Students; Supervising Four Students for their doctoral studies.**; and **Imparted training to final year students of Applied Geophysics** from various Indian Universities/Institutes and guided for **48 Dissertations** as part of curriculum of Universities.

### 10. Recognition/Honors/Awards/Fellowships:

**Awards:** (i) **AP Scientist Award** - 2010; (ii) **NN Chatterjee Award** (2010) by GSI; (iii) **Prem Bahadur Memorial Lecture** (2009) of IGC; (iv) **Best Poster Award** (2007) by Petrotech; (v) **National Mineral Award** (2005) by Ministry of Mines; (vi) **Best Paper Medal** (2002) by APAS; (vii) **Swarnajayanti Project Award** (2001) by DST; (viii) **Young Scientist Award** (1998) by CSIR; (ix) **Krishnan Gold Medal** (1996) by IGU

**Fellow:** (i) **National Acad. of Sciences**, India (2011); (ii) **APAS** (2010); (ii) **GSI** (2008); (iii) **IGU** (2002); (iv) **Raman Fellowship** (2003) by CSIR; (v) **BOYSCAST Fellowship** (1999) by DST

**Honor:** (i) **Thesis Supervisor** at Univ. of Hyderabad (2011 onward) and at Andhra University (2011 onward); (ii) **Chief Scientist** in two cruises (2010 & 2007); (iii) **ILP Bureau Member** under IUGG (2007 onward); (iv) **Among 50 Emerging Stars** (2003) by 'The Week' Magazine; (v) **1<sup>st</sup> Place** in 'Science Writing in Hindi' (2002) by CSIR

**Member:** (i) Active member of **AAPG**; (ii) **Board of Studies** for M.Sc. (Tech) in App. Geophys. at ISM (2006 onward); (iii) **Technology Information, Forecast & Assessment Council** of DST (2010 onward); (iv) **SPG Vice President** of Hyderabad Chapter (2010 onward); (v) **SEG Global** (2000 onward); (vi) **IGU**, (vii) **ISCA**, (viii) **IGC**; (ix) **Technical Committee of National Gas Hydrates Program** (2000 onward); (x) **Research Advisory Committee** of DOD (2002-2004)

**Editorial Board:** (i) **Jour. GSI** (2011 onward); (ii) **Episodes** (2007 onward); (iii) **Geohorizons** (2006 onward); (iv) **Int. Jour. Earth Sci. & Eng.** (2008 onward); (v) 2nd Edition of **Encyclopedia for Solid Earth Geophysics**, 2011 by Springer; (vi) **Guest Editor**, a sp. issue on gas-hydrates in **Marine & Petroleum Geology** 2011 by Elsevier

**AOGS Sessions: Organized & chaired sessions on gas-hydrates in 2007, 2008, 2009, 2010, 2011 and 2013**

**International & National Seminars:** (i) Organized/convened 12 seminars; (ii) Chaired 26 sessions; (iii) Delivered 30 invited talks/keynote speeches; and (iv) Attended 67 conferences including the AOGS

**Research Fund received: 10.5 Million US \$ (equivalent to INR 4686 Lakhs)**