

## Curriculum Vitae of **Prof. Shakeel AHMED**, FNASc, FGSI, FNESA, FTAS



Position & Affiliation:	<b>Professor, (M.K. Gandhi Chair)</b> Centre for Disaster Management, Dept. of Geography, <b>Jamia Millia Islamia (A Federal University)</b> , New Delhi-110025, India
Formerly	{ <b>Chief Scientist</b> , CSIR-National Geophysical Research Institute, Hyderabad <b>Team Leader (India)</b> , <b>Indo-French Centre for Groundwater Research, Hyderabad</b> <b>Professor</b> , Academy of Scientific and Innovative Research (AcSIR)
Contact Details: Ph/Fax:	<b>Dept. of Geography, Jamia Millia Islamia, New Delhi-110 025, INDIA</b> +91 11 26981717 (Off) Fax: +91 11 26980229, Cell <b>+91 9849919496/8074418911</b> Email : <a href="mailto:shakeelifcgr@gmail.com">shakeelifcgr@gmail.com</a> , Skype ID : shakeelahmedngri <b>e-mail</b> shakeelifcgr@gmail.com, sahmed7@jmi.ac.in

### Educational Qualifications:

Degree/Certificate	Subject/Specialization	Year	University/Institution	Class/Grade
B.Sc.	Physics, Maths. & Geology	1977	Banaras Hindu University, <b>India</b>	First
M.Sc.Tech.	Exploration Geophysics	1980		First
U.G. Diploma	Arabic	1981		First
P.G. Diploma	Geostatistics	1985	Ecole Nationale Supérieure des Mines de Paris, <b>France</b>	Honorable
D.E.A.(Pre-Ph.D.)	Geostatistics	1985		Honorable
Doctorate (Ph.D.)	Hydrology & Quantitative Hydrogeology	1987		Honorable

### Present Position (Scientific & Managerial Responsibility):

- Professor (**MK Gandhi Chair**), Centre for Disaster Management, Dept. of Geography, Jamia Millia Islamia, New Delhi
- Secretary**, Asian GWADI (An UNESCO Flagship Program)
- Member, **Governing Board**, UNESCO Regional Centre for Water Harvesting, Khartoum, Sudan

### Academic Experience:

- Teaching** water and Groundwater disaster under Climate Change and their management to MSc students at Centre for Disaster Management, Jamia Millia Islamia, New Delhi
- Teaching** Research Methodology, hydrogeology & Geostatistics to PhD Students as **Professor** of AcSIR at CSIR-NGRI, Hyderabad during 2013-2018.
- Supervised** ~40 doctoral students of which 15 already got degree awarded including 3 French Students (**List at Annexure 1**). Supervised more than 75 M.Tech/B.Tech Students

and 4 Post Doctoral Fellows.

- iv. **Visiting Fellow**, Dept. of Geology, **Aligarh Muslim University** during 2011-12.
- v. **Visiting Professor**, Dept. of Earth Sciences, **University of Kashmir** during 2011-13.
- vi. Established an **Experimental Hydrogeological Park** at Chhotuppal, India for detailed Education & Research on Hard Rock Hydrogeology and linked it with **International H+ network** (<http://hplus.ore.fr>).
- vii. Delivered a number of **Key note speeches**, invited lectures as well as training lectures to a large number of conferences, training courses etc.
- viii. Member of the expert committee for designing and finalizing the syllabus of post-graduate courses in Earth Sciences at (1) Dept. of Earth Sciences, University of Kashmir and (2) Dept. of Earth and Atmospheric Sciences, National Institute of Technology, Rourkela.

#### **Administrative & Managerial Experience:**

- i. **Managed as Team Leader for 19 years** (Since 1999), **Indo-French Centre** for Groundwater Research (**IFCGR**:[www.ifcgr.net](http://www.ifcgr.net)); an International Research Centre set-up at the CSIR-National Geophysical Research Institute, Hyderabad in collaboration with BRGM, France for advanced research in hard rock hydrogeology.
- ii. **Coordinated** an important and major project viz., AQUIM; carrying out geophysical investigations at six sites in the entire country as pilot project of an **Aquifer Mapping flagship** program of Government of India through MoWR (<http://www.aquiferindia.org>).
- iii. **Led a scientific delegation** to Tunisia to discuss the bilateral collaboration in Water science and technology during February 2010.
- iv. **Organized** a number of National and International conferences on the subject and delivered several keynote speeches (**Annexure 2**).
- v. **Member and/or Chair-person** of a number of internal committees for managing several activities of the organization.
- vi. Coordinated from NGRI a joint centre; **CeGER** at the **University of Kashmir** since 2012.

#### **Professional Experience & Responsibility:**

- i. **Coordinator**, theme on “Non-invasive 3D Groundwater Mapping for Resource Management” in the 36<sup>th</sup> **International Geological Congress** to be held in India during Nov. 9-14, 2020.
- ii. Appointed as **Expert** for preparing IX-IHP of UNESCO as Expert from Member State (EoMS), India.
- iii. Member, Governing Body of UNSCO Category-II centre on Rainwater Harvesting, Khartoum, Sudan (2019 onward).
- iv. **Mentor** for DST (GOI) **INSPIRE** program since 2009 and delivered more than 30 INSPIRE lectures on Groundwater Hydrology.
- v. Secretary, **Asian G-WADI**, an International program of UNESCO for Water development and Management in Semi-Arid areas (2018 onward). Member, **Advisory Committee** of Asian G-WADI during 2007-2017.
- vi. Co-opted Member of **DST-PAC** on Earth and Atmospheric Science including Glaciology (2015-2018).
- vii. Member of **DST-FIST** Advisory Committee on Earth and Atmospheric Sciences (2015-2019).
- viii. Member, INSA National Committee of **IGBP-WCRP** for the year 2012-15
- ix. Appointed **National Coordinator** for the Indo-Tunisian Collaboration in water Sciences and Technology during 2010-2012.
- x. **Chairman** (2009-2012), South Asian Working Group on Hard Rock Hydrogeology of IAH (HyRock).

- xi. Member, **Editorial Board**, Intern'l Journals viz., **IJCER, IJSTRE & IJHST**
- xii. **Member**, Task force for the 12<sup>th</sup> Five years plan for the Physical Sciences Cluster of CSIR.
- xiii. Member, FICCI Water Committee (2005-2007).
- xiv. **Associate Editor** (1999-2003), Hydrogeology Journal (Springer)
- xv. **Secretary** (1991-2005) of Indian National Committee of the International Association of Hydrogeologists (www.iah.org)
- xvi. **Member and/or Chair-person** of a number of internal committees for managing several activities of the organization and delivered a number of **Key note speeches**, invited lectures as well as training lectures to a large number of conferences, training courses etc.

#### International Stature:

Have been involved in a number of international programs on the subject, in various capacities that can be judged with my numerous **visits (Annexure 3)**, recognition in the form of **International award**, executing and leading International projects and joint publications. Also earned considerable **ECF in foreign currency** for the country.

#### Employment/Fellowship details:

From	To	Name of Organization	Position held
01.12.1980	23.05.1981	Banaras Hindu Univ., Varanasi, India	Research Scholar
26.05.1981	10.11.1982	CSIR-National Geophysical Research Institute, Hyderabad, India	Junior Research Fellow
11.11.1982	10.11.1987	CSIR-National Geophysical Res. Inst.	Scientist B
31.10.1984	24.12.1987	Ecole Nationale Superieure des Mines de Paris, France (Now Paris Mines Tech.)	French Govt. Ph.D Scholarship holder
11.11.1987	10.11.1990	CSIR-National Geophysical Research Institute, Hyderabad, India	Scientist C
11.11.1990	10.11.1995	..do..	Scientist E-I
01.11.1996	08.02.1997	Ecole Nationale Superieure des Mines de Paris, France	Post Doctoral Fellow
11.11.1995	10.11.2000	CSIR-National Geophysical Research Institute, Hyderabad, India	Scientist E-II
11.11.2000	10.11.2007	..do..	Scientist F
11.11.2007	30.09.2018	..do..	<b>Chief Scientist</b>
03.10.2018	Till date	Dept. of Geography, Faculty of Natural Sciences, Jamia Millia Islamia, New Delhi	<b>Professor (MK Gandhi Chair)</b>
15.01.2008	24.03.2008	By IWMI in an International Project on Groundwater Governance in Asia and Australia	Sr. Research Project Fellow
05.12.2010	20.12.2010	Aligarh Muslim Univ., Aligarh, India	Visiting Fellow
01.08.2012	14.08.2012	Kashmir University, Srinagar, India	Visiting Professor

#### Major Research work carried out:

- **Numerical Modeling of the aquifer systems:** Established an advanced laboratory of aquifer modeling and completed modeling of a large number of aquifers for their management studies.
- **Development and application of Theory of Regionalized Variables:** Developed several techniques using geostatistical methods to groundwater problems particularly in parameter estimation and network optimization.
- **Hydrogeology of Crystalline rock aquifers:** Developed a number of specialized techniques to thoroughly study the highly complex and extremely heterogeneous

crystalline aquifer systems and developed a **Decision Support Tool for effective management of groundwater** in such aquifers.

- **Systematic study of Arsenic and Fluoride contamination:** A detailed and systematic study was carried out to understand the genesis and regionalization of these contaminants (AS and F) and developed scientific tools for their sustainable remediation of Arsenic in Ganga basin for and Fluoride in South India.
- **Hydro-Geophysics** under **AQUIM:** Aquifer Characterization Using Advance Geophysical Techniques in Representative Geological Terrains of India. The project successfully completed and has set guidelines to upscale the Aquifer Mapping for the entire Nation.
- Natural Treatment of contaminated water specifically sewage using **Wetland** hydrogeology.

### Scientific Output as Publications:

Research Papers: ~ 218

(SCI: 129, Non-SCI:16, Book Chapters: 35, Proceedings: 43, others: 2)Tech. Rep: ~55, Software Package: 5, Proceedings/Books Edited/reviewed: 7

Citation indices (<http://scholar.google.co.in/citations?user=Tuhe7iUAAAAJ>)

Citation from Google Scholar (as on June, 2020)	Citations	h-index	I-10-index
<b>All</b>	<b>4962</b>	<b>35</b>	<b>83</b>
<b>Since 2015 (Last 5 years)</b>	<b>2839</b>	<b>29</b>	<b>64</b>

### Awards & Honours:

<b>Young Scientist Award</b>	Awarded by the Muslim Association for the Advancement of Science, India (MAAS) for <b>1996</b> in Physical Sciences
<b>International Prize for Water Science</b>	Awarded by the Cannes Water Symposium, France. for the year <b>2004</b>
<b>National Mineral Award</b> (Now National Geosciences Award)	Awarded by the Ministry of Mines, Govt. of India for <b>2006</b> in Groundwater
<b>HS Pareek Award</b>	Shared (as Co-author) for the best paper published in Jr. Geol Soc. of India during <b>2009</b> on coal geophysics
<b>Groundwater Excellence Award</b>	Received <b>2016</b> Smt. Savitree Chandha award of Excellence in Groundwater Management awarded by the Indian National Committee of International Association of Hydrogeologists
<b>NGRI-AHI National Hydrology Lecture Award</b>	Received NGRI-AHI National Hydrology Lecture Award <b>2014</b> by the joint association of CSIR-NGRI and Association of Hydrologists of India
<b>Anni Talwani Memorial Prize of IGU</b>	Received the Anni Talwani Memorial Prize of Indian Geophysical Union for the year <b>2017</b> in recognition of his outstanding contribution in the field of hard rock hydrogeology and setting up Indo-French Centre for Groundwater Research
<b>National Geoscience Award (Groundwater) Team Award</b>	Received NGA for 2017 for Groundwater Exploration including project development, hydrogeological studies and management of groundwater resources. Leader of the Team
<b>FNASc</b>	Elected Fellow of National Academy of Sciences of India (NASI), 2019
<b>FGSI</b>	Elected Fellow, Geological Society of India since <b>2005</b> (L:1362)
<b>FNESA</b>	Elected Fellow of the National Environmental Sciences Academy, New Delhi, <b>2010</b> (No. 1513)
<b>FAPAS/FTAS</b>	Elected Fellow of the Andhra Pradesh Akademi of Sciences, Hyderabad since 2013 and will continue as founder fellow of

	<b>the Telangana Academy of Sciences</b>
<b>Visiting Fellow</b>	Was appointed Visiting Fellow in the Geology Department, Aligarh Muslim University, Aligarh during <b>2010-11</b> .
<b>Visiting Professor</b>	Was appointed Visiting Professor in the Department of Earth Sciences, University of Kashmir, Srinagar during <b>2011-13</b>
<b>Professor of AcSIR</b>	Was appointed as Professor of AcSIR (Academy of Scientific and Innovative research), in Physical Sciences, CSIR, New Delhi since <b>2013</b>
<b>M.K. Gandhi Chair Professor</b>	Appointed as MK Gandhi Chair Professor in Dept. of Geography Faculty of Natural Sci., Jamia Millia Islamia, New Delhi 2018
<b>Emeritus Scientist (CSIR)</b>	Awarded the Emeritus Scientist for a period of 3 years from CSIR to work at CSIR-NGRI, Hyderabad on

#### Member of the Learned Societies:

- i. International Association of Hydrogeologists
- ii. International Association of Hydrological Sciences
- iii. American Geophysical Union (11449986/229932)
- iv. Indian Geophysical Union (Life Member)
- v. Fellow, Geological Society of India (L:1362)
- vi. Assoc of Geoscientists for International Development
- vii. Indian Society of Geomatics (ISG): Life Member
- viii. Association of Global Groundwater Scientists

#### Scholarship/Recognition:

- National Loan Scholarship, Govt. of India, during 1973-74 and 1977-79
- Shakespeare's Scholarship for the year 1974-75.
- Post Graduate Merit Scholarship, University Grant Commission, during 1979-80
- Junior Research Fellowship, Council of Scientific & Industrial Research, during 1981-82
- Doctoral Research Scholarship, Govt. of France, during 1984-87
- Obtained 3 years Merit promotion from Scientist C to Scientist E1, National Geophysical Research Institute, Hyderabad during 1993-94.
- Post Doctoral Fellowship of Govt. of France during 1997-98, 2000 & 2001.
- Sr. Project Research Fellow, IWMI project on Groundwater Governance in Asia
- **Chief Guest** at the 2-day National Seminar on "Characterization of Trace Elements in Natural Compounds by Spectroscopic methods" on January 22, 2010, at SV degree and PG College (OU), Suryapet, Nalgonda, AP.
- **Chief Guest** during the Annual Day function of Arkay College of Engineering and Technology, Nizamabad, AP and delivered keynote address on March 26, 2011.
- **Chief Guest** and Keynote Speaker at a two days National Seminar on "Groundwater Assessment and Management in Decan Basaltic Terrain" during January 4-5, 2015 at the Department of Geology, Deogiri College, Aurangabad.
- **Chief Guest** and Keynote Speaker at a two day National Conference on "Emerging Trends in Earth Sciences" during March 30-31, 2015 at the School of Earth Sciences, **Central University of Karnataka**, Gulbarga.
- **Chief Guest and Keynote Speaker** at International Conference on Water Resources, ICWR-2018 in University of Kerala, Thiruvananthapuram, March 15, 2018.
- Delivered an invited **TEDx talk on groundwater** in Hyderabad on May 6, 2018 on **"DAY ZERO"**.
- **Chief Guest and Speaker** at the inauguration of ICSSR sponsored 10 days (December 17-26, 2019) training program on "Research Methodology" Department of

Management Studies, Pondicherry University.

### Languages Known:

**English, French**, Hindi & Urdu (fluently read, write and speak), **Arabic** (read and write)

### Teaching/Faculty Positions:

Have been among the Teaching faculty of many Organizations during various short-term courses/ Workshops; a few of them are listed below.

1. Centre for Disaster Management, Jamia Millia Islamia, New Delhi
2. AcSIR: Academy of Scientific and Innovative Research (CSIR)
3. Department of Earth Sciences, Kashmir University, Srinagar, India
4. Administrative Staff College, Hyderabad, India
5. Regional Centre for Urban Water Management, Tehran, Iran
6. Academic Staff College & Geology Dept., Aligarh Muslim University, Aligarh, India
7. Geological Survey of India, Southern Region, Hyderabad, India
8. Jawaharlal Nehru Technical University, Hyderabad, India
9. Centre for Mathematical Modeling and Computer Simulation, Bangalore, India
10. National Geophysical Research Institute, Hyderabad
11. A.P. Groundwater Department, Hyderabad
12. Centre for Geostatistics, NMDC, Ltd., Hyderabad, India
13. Rajiv Gandhi National Groundwater Training and Research Institute, CGWB
14. Water Technology Centre, ANGRAU, Hyderabad & many others

### Current Research Interest and Specialization:

- Application of Geostatistical methods in data collection network design and parameter estimation of Natural Systems.
- Numerical Modeling of aquifers for assessment and management of Groundwater Resources particularly in weathered-fractured coupled system and simulation of convective mass transport in aquifers.
- Hydrogeophysics specifically heli-borne geophysics for investigating the near sub-surface.

### Major Projects led by Dr. Shakeel Ahmed in the recent past:

#	Title of the Project	Partners	Funding agency & Budget	Period	Role
<b>IN-HOUSE or NETWORK</b>					
1	Delineation and Regionalization of Arsenic contaminated groundwater zones and management of groundwater resources in Middle and lower Ganga Plains	CSIR-NGRI & CGWB(NER)	CSIR ~100 Lakhs	2007-2012	Project Leader
2	High-resolution geophysical investigations to delineate cavities and vesicular basaltic zones in Deccan Traps of India for minerals and groundwater resources	CSIR-NGRI & GSDA, Maharashtra	CSIR ~50 Lakhs	2007-2012	Project Leader
3	IFCGR: Investigating Structure and Functioning of the Hard Rock Aquifers for groundwater management (Quantitative & Qualitative)	NGRI, BRGM	CSIR & BRGM MLP-6403-28(SA)	2012-2017 and is continuing	Team Leader (India)
<b>EXTERNALLY FUNDED (INTERNATIONAL)</b>					
4	P2R: Indo-French Network project on water science	NGRI, IISc, IRD, BRGM, CWES-KCT, INRA, IITD	<b>DST-India &amp; MAE, France</b> 8 lakhs + €1 Lakh	2006-2010	Activity Leader
5	SUSTWATER: Decision Support Tool for	NGRI, BRGM,	<b>EU under FP-6</b>	2009-2012	Project

	sustainable groundwater management	APGWD	€ 100,000		Leader
6	Groundwater monitoring network optimization and database on F and As	NGRI	<b>UNESCO</b> US\$1500	2009-2010	Project Leader
7	Coupling water flux and stable isotopes measurements to analyze irrigation efficiency in overexploited aquifers of southern India	NGRI and BRGM	<b>IAEA</b> € 15,000	2009-2011	Project Leader
8	<b>MOHINI</b> : MOdélisation intégrée des ressources en eaux des aquifères de socle : vulnérabilité aux cHangements globaux d'origine aNthroplique	NGRI, BRGM, Geoscience-Rennes & Montpellier, ITASCA, CGS-Uni Louis Pasteur	<b>ANR: France</b> In kind	2008-2011	Project Leader
9	<b>SHIVA</b> : Socio-economic Assessment of the rural Vulnerability of water users under stressors of global changes in the Hard rock area of South India	NGRI, BRGM, SIRS, LMTG, CSH, IFP & CESS	<b>ANR, France</b> € 5000	2009-2012	Activity Leader
10	Impacts of meso-scale Watershed Development in Andhra Pradesh (India) implications for designing and implementing improved WSD policies and programs	NGRI, IWMI, CRIDA, LC, ANU, CSIRO,	<b>ACIAR, Australia</b> Aus\$ 125,000	2009-2015	Proj. Leader at NGRI
11	RUAF: Urban waste water irrigation	NGRI, IWMI, BRGM	<b>IWMI</b> € 6,800	2009-2011	Proj. Leader: NGRI
12	GRACE: Hydrology and Water Resources from Space over the Indian Continent	NGRI, LEGOS	<b>IFCPAR</b> , 45 lakhs	2009-2014	Joint Collaborator
13	International Hydrogeological Park at Chhotuppal NGRI Campus, Nalgonda	NGRI, BRGM, Hydroscience, Montpellier	<b>IFR-ILEE</b> Res. support scheme €10000-15000	2009-2014	Project Leader at NGRI
14	SAPH PANI: Natural water systems and treatment with water shortages in urbanised areas in India	NGRI plus 18 others	<b>EC</b> : € 341,750 (Total Budget: 3.5M€)	2011-2014	Project Leader at NGRI
15	Geophysical Investigation for Groundwater Exploration in <b>South and West Niger</b> (Consultancy Project)	NGRI and WAPCOS	<b>Super Geo Drillers, India</b> US\$ 250,000	2016-2017	Project Leader
<b>EXTERNALLY FUNDED (NATIONAL)</b>					
16	AQUIM: Aquifers characterization using advance geophysical techniques in representative geological terrains of India	CGWB/MOWR	WB: HP-II INR 27 crores	2012-2015	Project Coordinator
17	Assessing water availability & footprint and decision support tool for sustainable Sugar-cane cultivation in different parts of India	WWF, New Delhi	Dutch Bank and Robo Bank INR 1.04 Crores	2015-2018	Project Leader
18	Establishment of River-Aquifer Connectivity In Ganga-Yamuna Doab and Delineation of Possible Paleo-Rivers In Parts of Allahabad Employing High Resolution Multimoment Heliborne Geophysics	CSIR-NGRI CGWB	CGWB-MOWR 4.85 Crores	2016-2018	Project Coordinator
19	Geophysical Mapping to delineate suitable zones for Mega Artificial Recharge in Tapi bank areas	CSIR-NGRI	WAPCOS Ltd ~0.25 M US\$	2016-2017	Project Coordinator
20	Geophysical Surface Resistivity Survey to pin point water well drilling sites in various districts of West Bengal under the WBADMIP	CSIR-NGRI	WAPCOS Lts 0.52 Crores	2016-2017	Project Coordinator
21	High Resolution 3d Aquifer Mapping Along Tapi River And The Adjoining Region Near Surat Employing Heliborne And Ground Geophysical Surveys	CSIR-NGRI	Surat Municipal Corporation ~0.75 M US\$	2017-2019	Project Leader
22	Development and testing of nano-geo tracers: Understanding groundwater flow dynamics and contaminants migration in various geo-	CSIR-NGRI & Coimbatore	DST 25.0 Lakhs	2016-2018	Project Leader

	<a href="#">environments</a>	<a href="#">Agr. Centre</a>			
23	Assessment of Regional Hydrological System using Space Borne Gravity Observation	CSIR-NGRI, NRSC, AU, IISc, IIT-ISM, IIT-Kharag etc	DST 2.0 Crores	2018-2020	Co-PI (During Submission) Now Advisor
<b>Projects in Pipeline</b>					
25	Empowering Farmers with <u>Decision Support Technology</u> for Sustainable Groundwater Management ( <b>EFTECH</b> )	JMI & IISER, Bhopal	DST (SEED Program) GoI Rs. 65.2 lakhs	2019-2021	Co-PI
26	Integrated Geoscientific Knowledge in Water Resource Management in the Water Scarce Region of part of Ken Basin, Damoh, Madhya Pradesh	JMI & INTU, MP	MoES, GoI Rs. 49.49 lakhs	2020-2022	Co-PI



**Theses supervised**

(Supervised the doctoral and postdoctoral research of the following candidates)

Doctoral: **43 (Awarded: 16)**, M. Tech/MSc: **55**, B. Tech: **25**, DEA in French: **7**,

**CSN** [French National Program]: **3**, Trainees: More than **100**

#	Name	Title of the thesis	University	Status	Present Affiliation
1	Ms. Carine Engerrand, <b>France</b>	Hydrogeology of Fissured crystalline hard rocks covered with thick weathered rocks in Monsoon regions: Hydrogeological studies of two watersheds in Andhra Pradesh	Université Pierre et Marie Curie, Paris, France	<b>Awarded</b> 2002	Teaching in France
2	Dewashish Kumar, India	Conceptualization and Optimal data collection for simulating flow regime in weathered-fractured aquifers for groundwater management	Osmania University	<b>Awarded</b> 2004	Scientist at CSIR-NGRI
3	Devraj de Condappa, <b>France</b>	Etude de l'écoulement d'eau à travers la zone non saturée à l'échelle du bassin versant d'une système d'aquifère de socle. Application à l'évaluation de la recharge du bassin versant de Maheshwaram, Inde	Université Joseph Fourier, Grenoble, France	<b>Awarded</b> 2005	NGO
4	Faisal Kamal Zaidi, India	Characterization of crystalline hard rock aquifers through geological and hydrogeological methods	Aligarh Muslim University, Aligarh, India	<b>Awarded</b> 2006	Assoc.Prof. in King Saud Univ. Riyadh, KSA
5	Subash Chandra, India	Contribution of Geophysical investigations in Estimating Hydrogeological regime of the Aquifers in hard rock Region	Banaras Hindu Univ, Varanasi, India	<b>Awarded</b> 2006	Scientist at CSIR-NGRI
6	Ms. Tanvi Arora, India	Geophysics and geostatistics: an integrated approach for characterizing and monitoring the unsaturated zone	Osmania University	<b>Awarded</b> 2007	Scientist at CSIR-NGRI
7	Sushobhan Dutta, India	Fracture delineation and establishing their connectivity through geophysical methods and Radon gas Emanometry	Osmania Univ. 2004 (Discontinued)	<b>Expert in France</b> Fugro/CGG	
8	Adil Nabi Bhat, India	Optimization of Groundwater Monitoring Networks Using Geostatistics	Aligarh Muslim University	<b>Awarded</b> 2008	Scientist in ARAMCO KSA
9	Surendra Atal, India	Investigation of Hydro-Geochemical Factors Controlling Excessive Fluoride in Granitic Hard Rock terrain: with special reference to Maheshwaram watershed, Andhra Pradesh	Osmania University	<b>Awarded</b> 2009	Geologist in GSI, India
10	Haris H. Khan, India	Assessment of groundwater pollution from distributed sources in hard rock formations	Osmania University	<b>Awarded</b> 2011	Asst. Prof. AMU, India
11	Ms. Shazrah Owais, India	Analyzing uncertainties in groundwater balance for water management in hard rock aquifers	AMU, Aligarh 2005 (Discontinued)	<b>Groundwater Modeler in Australia</b>	
12	Ms. Visahano Zaphu, India	Assessing groundwater quality in hard rock aquifers: Vulnerability of contaminations under the climate change	Osmania Univ. 2007 (Discontinued)	<b>Geologist in GSI, India</b>	
13	E. Nagaiah, India	Geological and Geophysical signatures of Zeolite cavities (filled with water and dry) in the Deccan Volcanic Province	Osmania University	<b>Awarded</b> 2013	T.O. at CSIR-NGRI

14	Fazel Tras, Iran	Determination of Anthropogenic Pollution in groundwater using geophysical methods	Osmania University, 2008 (Discontinued)	Professor in Tehran Univ.	
15	Ms. Sarah, India	Evaluation of Groundwater Renewability under polluting Environment and Determining its Indicators for Planning and Management	Osmania University	Awarded 2013	INSPIRE Faculty at Kashmir Uni
16	Farooq Ahmad Dar, India	Hydrogeology and Water resources assessment of Karst regions of India	University of Hyderabad	Awarded 2014	Asst. Prof. at Kashmir Univ.
17	Mrs. Mehnaz Rashid, India	Estimating components of groundwater balance through geospatial techniques in hard rock aquifer of semiarid regions	Osmania University 2009	Awarded 2014	PDF in Taiwan
18	Ms. Kissa Fatima, India	Various impacts of climate variability on hydrological cycle: Ecology, Agriculture and socio-economic aspects	Osmania Univ. 2009 (Discontinued)	Asst. Manager Terra World	
19	P. Raghvendra, India	Controlling Hydrodynamics of multilayered aquifers in Ganga basin to arrest Arsenic contamination and design optimal pumping	Osmania Univ. 2010 (Discontinued)	Scientist at CGWB	
20	Tarun K. Gaur, India	Geophysical properties of the unsaturated zones indirectly providing input parameters to the Richard's equation for estimation recharge flux to the saturated zones	Osmania Univ. 2010 (Discontinued)	Geophysicist at ESSAR Oil Ltd, Durgapur	
21	Nicolas GUIHENEUF, France	Solute Transport Study in fractured crystalline rocks under tropical condition	Universite de Rennes-I 2011	Awarded 2015	Res. Schol. at Univ. of Rennes
22	Ms. Deepa Negi, India	Spatial distribution and temporal variation of Nitrate contamination in groundwater and its impact on the land-use	Osmania Univ 2012 (Discontinued)	Working in TERI	
23	Nazish Rana, India	Understanding the hydrodynamics of artificial recharge and simulating its impact on groundwater resources	Osmania Univ. 2012 (Discontinued)	Geologist in Jharkhand Govt.	
24	Ms. Kashish Jafri, India	Analyzing Geological and hydrogeological ambiguities in Aquifer modeling	(Discontinued)	JRF at MoES, New Delhi	
25	Deepak Kumar, India	A refined aquifer mapping through joint inversion of electrical and electromagnetic high density data	Osmania Univ. 2014	Scientist, AMD, Hyderabad	
26	Rakesh Tiwari, India	Mapping alluvial aquifers with high density heliborne geophysical data	University of Hyderabad 2014 (Discontinued)	Scientist MoES	
27	Shiv Shankar, India	Arsenic contamination in groundwater: its origin, distribution and relation with flow dynamics	Delhi Univ. 2016 (Discontinued)	Working in Delhi University	
28	Syed Adil Mizan, India	Analyzing uncertainties in estimating fluxes of groundwater balance and its impact on groundwater prediction	Osmania Univ. 2015	Awarded Dec. 2019	Research Scholar at CSIR-NGRI
29	Ms. Pratyusha Adepur, India	Wetland hydrology and assessment of their efficacy for natural treatment of waste water	Osmania Univ. 2015 (Discontinued)	Officer in FCI, AP	
30	Md. Wajihuddin	Geological contamination on of Granitic Vadose zone for Soil Aquifer Treatment (SAT) for urban wastewater	Nanded Univ. 2016 (Discontinued)	Hydrogeologist in TSGWD	
31	Ms. Ankita Chatterjee	Assessment of sources and degree of geogenic ontamination to groundwater both from Fluoride and Arsenic	AcSIR (NGRI) 2016	Thesis Submitted	Teaching in IIT Goa
32	Tabish Raza	Glacial to Holocene variations and surface and deep water masses of the North Indian Ocean using isotopic and trace elemental proxies from marine sediment	Osmania University 2013	Awarded 2016	CSIR-RA

33	Fozail Akhtar	High Resolution Paleoclimatic and Paleomonsoonal Reconstruction during Late Quaternary Using Stable Carbon and Oxygen Isotopes in Speleothems, Lower Himalaya	AcSIR (NGRI) 2013 (Discontinued)	Geologist in Geological Survey of India	
34	Santosh Kumar Beja	Monthly scale paleoclimatic Reconstructions from scleractinian corals of Lakshadweep Archipelago using isotopic and Trace elemental proxies	AcSIR (NGRI) 2014	Thesis Submitted	Lecturer in Univ. of Odhissa
35	Ms. Madeleine Nicolas France	Connectivity and geochemical compartmentalization of a fractured crystalline aquifer in tropical semi-arid environment	Univ. of Rennes-1 France, 2016	<b>Awarded</b> 2020	BRGM fellowship
36	George Biswas	Controle of geological structures on groundwater regime in the fissured rock aquifers	AcSIR (NGRI) 2016	In Progress	Asst. Prof. in Presidency Univ. Kolk.
37	Mohd Arshad	Comprehensive assessment of Managed Aquifer Recharge (MAR) in hard rock terrains and its upscaling	Andhra Univ. 2017	In Progress	SRF-CSIR
38	Venkatarao Ajaykumar	Assessing and simulating interaction between freshwater and Saline Water in Coastal Aquifers	AcSIR (NGRI) 2016	In Progress	INSPIRE Fellow
39	Mohd Naushad Ali	Eliminating bias in Numerical Modelling of Aquifers through Applications of the Theory of Regionalized Variables	AcSIR (NGRI) 2017	Discontinued	Joined GSI
40	Abhilash Pashwan	Effect of Climate Variability on Groundwater Resources using Geophysical Approach	AcSIR (NGRI) 2017	In Progress	INSPIRE Fellow
41	Kamr Uzaman Khan	River Aquifer linkages in presence of Paleochannels in an inter-stream region of Allahabad	AcSIR (NGRI) 2018	Discontinued	Joined as Scientist, CGWB
42	Fauzia	Estimation of rainfall recharge flux to groundwater under changing climatic condition in semi-arid regions	AcSIR (NGRI) 2018	In Progress	INSPIRE Fellow
43	Pradeep Kumar	Analyzing Climate induced uncertainties in numerical aquifer modeling	AcSIR (NGRI) 2018	Discontinued	INSPIRE Fellow

**Seminar/Workshop Organized:**

1. International Workshop, IGW-89 on “**Development of appropriate methodologies for groundwater development and management in developing countries**”, during Feb. 28 – March 4, 1989 at the National Geophysical Research Institute, Hyderabad, India as Organizing Joint Secretary.
2. Commonwealth Science Council’s workshop on “**Rural Drinking Water**” during Sept. 1991 at the National Geophysical Research Institute, Hyderabad, India as Convener.
3. IAH sponsored International workshop on “**Monitoring and recharge estimation**” during January 19-21, 1994, at the National Geophysical Research Institute, Hyderabad, India as IAH representative.
4. Indo-French workshop on “**Collaboration in water science and technology**” during March 22-23, 1999 at the National Geophysical Research Institute, Hyderabad, India as Organizing Secretary.
5. Kick-off Indo-French workshop on “**Hard rock hydrogeology**” during June 19-21, 2001 at the IFCGR, National Geophysical Research Institute, Hyderabad, India as Convener.
6. **5<sup>th</sup> Anniversary of the IFCGR** and one day workshop on Hard rock Hydrogeology, March 24, 2005 at NGRI, Hyderabad
7. A 2 days workshop for Launching the project **SUSTWATER** funded by the EC under Asia Pro Eco Scheme (April 2006 to March 2008) at Hyderabad, June 8-9, 2006.
8. A 2 days National Seminar on “**Notable Research in Earth Sciences for the Socio-economic development of the Nation**”, February 19-20, 2007 at the National Geophysical Research Institute, Hyderabad as Organizing Secretary, sponsored by the ONGC Ltd.
9. International Workshop of the project **SUSTWATER**, March 3-5, 2008 at IFCGR, NGRI, Hyderabad to discuss the outcome of the project and transfer the technology to end users.
10. Indo-French workshop on Water Science and Agronomy sponsored by INRA, France, March 12-14, 2009, NGRI, Hyderabad.
11. Indo-French workshop on “Deep Earth Processes-Interaction between Solid, Fluid & Environment”, Mahabalipuram, Feb. 1-5, 2011.
12. Appointed President of Section “Geol-Geographical Sciences” in the 24<sup>th</sup> Annual Convention of the National Environmental Science Academy, Bangalore, December 2011.
13. Indo-Tunisian Workshop on Water Science and Technology as Indian Coordinator during Feb 1-5, 2012 at Hyderabad: A 12 member delegation and 20 member delegation have discussed the collaboration.
14. Indo-Danish workshop on Heliborne Geophysical Investigation during October 15, 2012 in New Delhi at Science Centre, CSIR, New Delhi.
15. Two days International Training course on Airborne geophysical investigation for mineral and groundwater, organized jointly by GSI and CSIR-NGRI during May 20-21, 2014 at Hyderabad.
16. International Training Course on Surface Geophysics sponsored by the World Bank during December 2-12, 2014 at CSIR-NGRI, Hyderabad where about 50 participants attended.
17. Training course on geophysics for the hydrogeologists for the GSDA officers during March 22-25, 2016
18. **7<sup>th</sup> Asian GWADI meeting** cum workshop during November 26-30. 2017 at CSIR-NGRI, Hyderabad.
19. **Convener**, National Seminar on “Resilience of Groundwater Resources for accommodating Changing Climate Scenarios” at Jamia Millia Islamia, Nov. 7<sup>th</sup>, 2020.
20. **Coordinator**, Theme 44 on “Non-invasive 3D Groundwater Mapping for Resources Management” of the 36<sup>th</sup> International Geological Congress, New Delhi, Nov. 9-14, 2020.

**Membership of Scientific/Technical committees:**

1. Member of the Steering Committee, Aqua Foundation for Annual World Aqua Congress, New Delhi.
2. Member of the Committee to study feasibility, wastewater technology, cost implication etc. in

- A.P. constituted by the Honorable High Court of AP.
3. Member of the working group on “Integrated & Sustainable Water Resources Management by the Govt. of AP
  4. Member of the FICCI Water Committee
  5. Member of the Technical Coordination Working Group of AP for WENEXA-II, USAID funded project.
  6. Secretary of the Scientific Advisory Committee of the UNESCO-IHP Workshop on Modelling in Hydrogeology, Dec. 2-7, 2001, Chennai, India.
  7. Secretary of the Scientific Committee of the International Groundwater Conference, Feb. 20-22, 2002, Dindigul, Tamilnadu, India.
  8. Member of the International Scientific Committee of the International Conference on “Hydrology of the Mediterranean and Semi-arid regions”, April 1-4, 2003, Montpellier, France.
  9. Member of the organizing committee, workshop on “The water crisis-Hope and Action for humanities future”, NGRI, Hyderabad, November, 2002
  10. Member of the National Advisory Committee of the International conference on “Hydrological Perspectives for sustainable development”, Feb. 23-25, 2005, IIT, Roorkee, India
  11. Member of International Scientific Advisory Committee of the International Conference on “Water Resources in the 21<sup>st</sup> Century” December 6-8, 2005, Cairo, Egypt.
  12. Member of the Advisory Committee for the Seminar on “Modern Trends in Groundwater Exploration, Conservation and Protection”, Osmania University, Hyderabad, India during Feb 25-27, 2005.
  13. Member of the Organizing Committee, International Conference of “Hydrology and Watershed Management: Improving the water productivity in Agriculture” December 2006, at JNTU, Hyderabad, India.
  14. Member of the Scientific Committee, International Conference and 150<sup>Th</sup> Anniversary of Darcy’s law, Dijon, France, May 29 to June 2, 2006.
  15. Member of the Scientific Committee of the Joint International Convention of IAH and IAHS on “Water: A vital resource under stress-How science can help” held at Hyderabad during Sept. 6-11, 2009.
  16. Member of the Scientific Committee of the International Conference on Hydrology and Watershed Management (ICHWAM), Feb. 3-6, 2010, JNTU, Hyderabad.
  17. Member of the NGRI Golden Jubilee Celebration Committee and Chairman of the committee on constituting the NGRI-Golden Jubilee Award.
  18. Member of the Organizing Committee, Geophysical Sciences for Energy, Climate Change and Human Society, Banaras Hindu University, December 21-23, 2010, Varanasi, India.
  19. Member of the International Scientific Advisory committee of the International Conference on Groundwater in fractured rocks, Prague, Czech Republic, May, 21-24, 2012.
  20. Member of the Scientific committee International Conference on “How to combine forest management, local development and protection of surface and Groundwater?”, Saint Etienne, France, Oct., 2012.
  21. Member, Organizing committee of National Seminar on Groundwater Governance, August 23, 2014 at New Delhi, organized by Indian National Committee of IAH.
  22. Member, Organizing Committee of 3rd International Conference on Hydrology & Meteorology 2014, Sept. 15-16, 2014 at HICC, Hyderabad.
  23. Vice-Chairman of the International Scientific Advisory Committee of 6th International Conference, IGWC 2015, December 9-11, 2015, SRM Univ., Chennai, India

**Visits/Research Experience abroad:**

(\$ shows that the visit has been at NO cost to CSIR-NGRI):

#	Dates of Visit	Country	Purpose and work carried out	Sponsor
<b>Year 1984</b>				
1	Oct. 31, 1984 to 24, Dec. 1987	FRANCE	Carried out doctoral research at the Ecole Nationale Supérieure des Mines de Paris (Centre de Geostatistics and Centre d'Informatique Géologique), Fontainebleau and obtained degrees of D.E.A. and Doctorate. Participated in the (i) International Seminar on "Stochastic approach to Sub-surface flow", at Montvillargene, June 4-6, 1985 and (ii) Journée de Geostatistics, June 16-17, 1987	Govt. of France\$
<b>Year 1985</b>				
2	July 14-23, 1985	USA	Participation to the NATO Advance Study Institute, "Fundamentals of Flow & Transport in Porous Media	Univ. of Delaware & ENSMP, France \$
<b>Year 1987</b>				
3	June 22-26, 1987	MALAYSIA	Participation to and presentation of paper in an International Conference on "Groundwater and Environment"	Organizers\$
4	August 9-22, 1987	CANADA	Participation to and presentation of paper in "XIX I.U.G.G. General Assembly and discussion with Indian delegation led by the Director, NGRI	IUGG \$
<b>Year 1988</b>				
5	Sept. 4-14, 1988	FRANCE	Installation of a few geostatistical software at the Centre d'Informatique Géologique, ENSMP, Fontainebleau, developed during doctoral research and participation in the 3 <sup>rd</sup> International Geostatistical Congress at Avignon, Sept 4-9	Govt. of France\$
<b>Year 1989</b>				
6	July 6-8, 1989	FRANCE	Discussion on the research on simulating flow in low permeability rock aquifers particularly in situation of coupled weathered and fractured aquifer system at the Centre d'Informatique Géologique, Fontainebleau	Govt. of France\$
7	July 9-19, 1989	USA	Participated and presented papers to "28th International Geological Congress	CSIR & Govt. of France
<b>Year 1994</b>				
8	Nov. 21-25, 1994	AUSTRALIA	Participated to and presented paper during "25 <sup>th</sup> congress of International Association of Hydrogeologists"	IAH\$
<b>Year 1995</b>				
9	Aug. 28 - Sep. 1, 1995	ISLAMIC REPUBLIC OF IRAN	Participated and presented paper during a conference on "Water Resources Management" WRM-95, Isfahan Univ. of Technology	UNESCO \$
<b>Year 1996-98</b>				
10	Nov. 10, 1996 to Feb. 8, 1997	FRANCE	Carried out <b>Post Doctoral Research</b> in advanced aquifer modeling techniques and preparation of a few models using the software NEWSAM. The software was brought and installed at NGRI	PDF by Govt. of France\$

11	Dec. 10, 1997 to Jan 25, 1998	FRANCE	Development of a few additional software to the modeling software and discussion regarding research work to be carried out by students from ENSMP to NGRI and from NGRI to ENSMP/UPMC	Govt. of France\$
<b>Year 2000</b>				
12	April 20, to May 06, 2000	FRANCE	Discussion on going collaboration and formulation of new projects for the newly opened Indo-French center at Hyderabad	Govt. of France\$
13	Nov. 15 to Dec 14, 2000	FRANCE	Discussion on future scientific work on the collaborative project on hard rock hydrogeology	Govt. of France\$
<b>Year 2001</b>				
14	Nov. 7-15, 2001	FRANCE	Discussion on the progress of the collaborative work and finalization of a doctoral thesis of a French student who has carried out the doctoral research in India	Govt. of France\$
<b>Year 2002</b>				
15	March 22 – 28, 2002	KUWAIT	Participated in an International Conference on Water Resources Management and presented a paper, Organized by the KISR	Organizers \$
16	May 1-31, 2002	FRANCE	Aquifer modeling studies of the Maheshwaram watershed under the Indo-French collaborative project	IFCPAR's Project\$
17	Sept. 15-20, 2002	FRANCE	Discussion and review of the progress of the IFCGR and extension of MoU between NGRI and BRGM	Govt. of France\$
18	December 16-22, 2002	EGYPT	Participated in an International conference on "Groundwater level control in the urbanized area" at Mansoura, Egypt and presented two keynote lectures and chaired a session	Organizers & UNESCO\$
<b>Year 2003</b>				
19	April 1-5, 2003	FRANCE	Participation in the conference Montpellier 2003 and making presentation as key note speaker and co-coordinator of the conference	IFCPAR's Project\$
20	December 7-12, 2003	FRANCE	Meeting with BRGM Orleans and IPGP, Paris for collaborative research. Development of models to investigate features of MARTHE, Aquifer modeling code	Govt. of France\$
<b>Year 2004</b>				
21	Oct. 30 -Nov. 4, 2004	FRANCE	Meeting at BRGM Orleans for progress of IFCGR and review of the MoU and visiting IPGP, Sisyphé, and CIG, Fontainebleau	Govt. of France\$
22	Nov. 26 – Dec. 8, 2004	ISLAMIC REPUBLIC OF IRAN	Participate in the UNESCO Regional workshop on "Water harvesting and Artificial Recharge" and also delivering a lecture series at the Ministry of Energy	UNESCO\$
<b>Year 2005</b>				
23	April 17 – 23, 2005	FRANCE	Meeting with Prof. G de Marsily of UPMC, Dr. Ledoux of ENSMP and participation in the Jury of a PhD viva at Université Joseph Fourier, Grenoble	Govt. of France\$
24	April-May 2005	PAKISTAN	Participation as resource person in the UNESCO workshop on Managing Artificial Recharge and Water Harvesting	UNESCO \$
25	June 29 – July 3, 2005	FRANCE	Receiving the trophy for the International Prize for Water Sciences presented during a ceremony at the 7 <sup>th</sup> Cannes Water Symposium, Cannes, France	Govt. of France\$

<b>Year 2006</b>				
26	May 29 – June 6, 2006	FRANCE	Participating in the 150 <sup>th</sup> Anniversary of Darcy law at Dijon and discussion for further collaboration with LEGOS, Toulouse and CEREGE, Aix en Province	Govt. of France\$
27	July 28 – August 3, 2006	ISLAMIC REPUBLIC OF IRAN	Participated as a resource person to a workshop on “Application of models and new techniques in groundwater management in arid and semi-arid regions”	UNESCO\$
28	Sept. 24 – Oct. 4, 2006	FRANCE	Participating in UNESCO workshop on Groundwater Indicator and meeting at several collaborating organizations in France	Govt. of France\$
<b>Year 2007</b>				
29	June 9-18, 2007	PEOPLE’S REPUBLIC OF CHINA	Participation as Resource Person in the G-WADI meeting and workshop on Aquifer Modeling	UNESCO\$
30	Sept. 02 – 10, 2007	FRANCE	Various meetings and discussions on the collaborative Research	Govt. of France & DST\$
31	Nov. 18-20, 2007	FRANCE	Discussion on the SUSTWATER project	Govt. of France\$
32	Nov. 20-25, 2007	MAROCCO	Various meetings interaction on the creation of a centre for Water Resources Management	Govt of France & DST\$
<b>Year 2008</b>				
33	Jan. 15-31, 2008	AUSTRALIA	Participation in the project work “Groundwater Governance in Asia” at the Centre for Comparative water policies and laws	IWMI\$
34	Feb-12-15, 2008	FRANCE	Discussion and planning meeting of collaborative projects under P2R	Govt. of France\$
35	March 20-24, 2008	NEPAL	For the concluding workshop of the IWMI Project on Groundwater Governance in Asia: Theory and Practice	IWMI\$
36	Sept. 24-Oct. 2, 2008	FRANCE	Discussion on various collaborations, finalizing the draft of the 4 <sup>th</sup> rider of the MoU between NGRI and BRGM and witness the signature at BRGM, HQ	Govt. of France\$
37	November 15 to 23, 2008	KINGDOM OF SAUDI ARABIA	For participation to an International Seminar on “Water and Environment” at Riyadh and also visit to the Saudi Geological Survey	Indo-French Project P2R\$
<b>Year 2009</b>				
38	August 16-24, 2009	FRANCE	Meeting with collaborators and completion of model of Artificial Recharge to the groundwater at Sisyphe, UPMC, Paris	Govt. of France\$
39	Sept. 27- Oct. 1, 2009	SUDAN	Invited to deliver keynote lectures in an UNESCO workshop on Water Resources, at Khartoum	UNESCO\$
<b>Year 2010</b>				
40	January 10-12, 2010	FRANCE	Meeting at Min. des’Affaires Eterangers (MAE), at Paris	Govt. of France\$
41	February 22-26, 2010	TUNISIA	Led a delegation of Indian scientists to the first Indo-Tunisian workshop on Collaboration in Water Science and Technology	DST\$
42	August 16-21, 2010	BRAZIL	2 <sup>nd</sup> International Conference: Climate, Sustainability and Development in semi-arid regions (ICID-2010), Fortaleza, Brazil for delivering an invited talk and arranging a round table	Organizers\$



43	December 08-14, 2010	FRANCE	Participation to the annual progress meeting of the project "SHIVA" funded by ANR, France	ANR Project\$
<b>Year 2011</b>				
44	January 4-15, 2011	FRANCE	Participation to the collaborative project GRACE and review of the progress	IFCPAR Project\$
45	June 19-21, 2011	ISLAMIC REPUBLIC OF IRAN	Participation in GWADI meeting and workshop on Climate change and its impact on water resources	UNESCO\$
46	July 29 to August 2, 2011	KINGDOM OF SAUDI ARABIA	Participated as expert to the inception meeting of the project on "Rising Groundwater Problem in the city"	ADA, KSA\$.
47	September 4-11, 2011	AUSTRIA	Participation in a project meeting at the IAEA	IAEA \$
<b>Year 2012</b>				
48	May 8-12, 2012	SWITZERLAND	Participation in a progress meeting of EU funded project "Saph Pani"	FP7-EC Project \$
49	June 23-27, 2012	FRANCE	Interview meeting at UNESCO-HQ, Paris and meeting at BRGM Orleans	UNESCO\$
50	Nov. 18-21, 2012	FRANCE	Meeting and discussions at BRGM, Orleans for future programs of IFCGR and finalizing the 7th Rider of MoU	AQUIM Sponsored Proj.\$
51	November 21-23, 2012	DENMARK	Discussion and finalization of Heliborne TEM survey program at Aarhus University, GEUS and SKYTEM	..do..
<b>Year 2013</b>				
52	May 26 – June 1, 2013	GERMANY	Participation in the 3 <sup>rd</sup> Progress review meeting (M18) of EC funded project "Saphpani"	FP7-EC Project \$
53	August 24-31, 2013	DENMARK	Participation in the 1st Indo-Danish Workshop on Heliborne Geophysics (INDANCE) as Indian Coordinator.	Govt. of Demark\$
54	September 16-21, 2013	PEOPLE'S REPUBLIC OF CHINA	Participation to GWADI meeting and delivering lecture in an Asian GWADI workshop at Beijing, PRC	UNESCO & ACIAR\$
55	Nov. 03-16, 2013	AUSTRALIA	Case study and fieldwork under ACIAR funded project in Perth and Adelaide	ACIAR\$
<b>Year 2014</b>				
56	May 11-17, 2014	FRANCE	Meeting of Saph Pani project as well as collaborative discussions at BRGM and UPMC, Paris	FP7-EC Project \$
57	July 8-9, 2014	FRANCE	To participate in the defence of a thesis as July member at Geosciences, Univ. of Rennes (Could not take up due to other assignment)	FP7-EC Project \$
58	December 13-21, 2014	USA	To deliver a lecture in AGU, fall meeting and also meeting with Professors of USGS & Univ. of Texas (Could not get Visa in time)	AQUIM Project\$
<b>Year 2015</b>				
59	March 21 to April 4, 2015	USA	To deliver a lecture in SAGEEP 2015 and hold discussions at the University of Texas at Austin & Univ. of Connecticut/USGS (Visit was not approved by CA)	AQUIM Project\$
60	June 12-16, 2015	Iran	Participate in 6th Asian GWADI meeting (could not take up the visit due to delay in approval)	UNESCO/RCUWM\$
61	Dec. 13-21, 2015	USA	To deliver a key-note speech in the American Geophysical Union's fall meeting at San Francisco	Projects\$

<b>Year 2016</b>				
62	February 16-24, 2016	Sudan	<ul style="list-style-type: none"> <li>• To deliver an invited lecture on Managing groundwater with Climate Change adaptation is feasible through a Decision Support Tool in over-exploited crystalline aquifer in Semi-arid regions</li> <li>▪ To attend UNESCO-GWADI meeting as a member of Asian GWADI advisory Committee</li> <li>▪ Hold discussions with eminent Hydrogeologists on the Aquifer Mapping Results and collaboration</li> </ul>	UNESCO & Univ. of Khartoum
63	July 31st - August 6, 2016	Pakistan	To deliver a series of lectures in the events organized by Pakistan Water Partnership (Program got postponed)	PWP & SDPI Pakistan
64	October 25-27, 2016	People Republic of China	G-WADI program (6 <sup>th</sup> Asian GWADI Meeting)	UNESCO
<b>Year 2017</b>				
65	March 19-23, 2017	Portugal	To participate in the Workshop on “Connecting young researchers: best practices of EU-India PhD programmes” organized by the Indo-European ERA-NET INNO INDIGO, at the Foundation for Science and Technology, Portugal	EU Project INNO INDIGO
66	Sept. 20-23, 2017	Korea	To participate and deliver an invited lecturue in 1 <sup>st</sup> Asia International Water Week at Gyeongju, South Korea	Asia Water Council
<b>Year 2018</b>				
67	Sept. 24-28, 2018	Sudan	To participate in Governing Body meeting of UNESCO-RCRWH and participating in International Seminar to deliver invited lecture	UNESCO
68	Dec. 09-15, 2018	Islamic Republic of Iran	To participate in 8 <sup>th</sup> Asian GWADI meeting, International Conference on International Drought Initiative	UNESCO
<b>Year 2019</b>				
69	July 28 – Sept. 01, 2019	USA	To participate in the convocation function of Penn State University, Visit to Maryland University etc.	Personal

**Other visits abroad:** Singapore, United Kingdom, Thailand and UAE

**Publication list of Dr. Shakeel Ahmed, Chief Scientist, CSIR-NGRI**

Research Papers: ~ **218**

(**SCI: 129**, Non-SCI:16, Book Chapters: 35, Proceedings: 43, others: 2)Tech. Rep: ~45,  
Software Package: **5**, Proceedings/Books Edited/reviewed: **7**

Citation indices (<http://scholar.google.co.in/citations?user=Tuhe7iUAAAAJ>)

Citation from Google Scholar (as on June, 2020)	Citations	h-index	I10-index
All	4962	35	83
Since 2015 (Last 5 years)	2839	29	64

**Book/Proceeding Edited/Reviewed:**

1. **Ahmed, S.**, Sarah, S., Rahman, A., Ahmad, S.M. (Eds.) 2021 Water Disasters: Threats and Solutions for a resilience society, under consideration for publication by Routledge Taylor & Francis Group.
2. **Ahmed, S.**, Chandra, S. and Verma, S.K. (Eds.) 2021, **Discovering Aquifers in different geological environs using Heliborne Transient Electromagnetic Geophysics**, under consideration for publication by CRC, Taylor & Francis Group.
3. **Ahmed, S.**, R., Jayakumar and A. Salih (Eds.), 2007, **Groundwater Dynamics In Hard Rock Aquifers - Sustainable Management and Optimal Monitoring Network Design**” Capital Publishing Company, New Delhi, 2007, 251p (ISBN 81-85589-25-9). International Edition published by **Springer**.
4. Eric Servat, W. Najem, Christian Leduc and **Ahmed S.** (Eds.), 2003, **Hydrology of the Mediterranean and Semi-Arid Regions**, IAHS publications No. 278, Proc. of International Conference on groundwater, Montpellier, France, April 1-4, 2003, 498p (ISSN 0144-7815).
5. Gupta, C.P., **S. Ahmed**, V.V.S. Gurunadharao and M.T. Rajan (Eds.), 1989, Proceedings of the international workshop on "Appropriate Methodologies for Development and Management of Groundwater Resources in Developing Countries", Feb. 28 to March 4, 1989, NGRI, Hyderabad, India, 3 volumes, pages 1348, published by Oxford and IBH Pub. Co., New Delhi (and also by Springer, Netherlands).
6. Dillon, P.J. and **S. Ahmed** (Eds.), Notes of Australian workshop on "Geostatistics in Water Resources", vol. 2: Practice and Water Resources case studies, Nov. 13-17, 1989, Adelaide, Australia published by Centre for Groundwater Studies, CSIRO, Australia.
7. Murali, G. and **S. Ahmed** (Eds.), Notes of the course on "Geostatistics and Stochastic Approaches in Hydrogeology", July 10-15, 1992, Hyderabad, India published by Jawaharlal Nehru Technological University, Hyderabad.
8. Reviewed and revised a book on "Hydrogeological Reconnaissance Drilling" by H. Plote translated from French into English being published by Wiley Eastern Publishers.

## Chapters in Books (35):

1. Sreedevi, P.D., Sarah, S., Ahmed, S. and Pavelic, P., (2019) Module-III: Geohydrology, Chapter IV In Reddy, R. Syme, G. and Chiranjeevi, T. (Eds.) Integrated approaches to sustainable watershed management in Xeric Environments, Elsevier, Pp: 27-38.
2. Ahmed, S., Chandra, S., Chandra P.C. and Rajendra Prasad, P. (2019) Groundwater Prospecting: Classical to the advanced Geophysical Investigations, Chapter 7, in Majumdar and Tiwari (Eds.) "Water Futures in India: Status of Science and Technology", Pp:181-214, published by INSA, India, IISc Press.
3. Chatterjee. A. Arshad, Md., Selles, A and Ahmed, S. (2019) Relation between water level fluctuation and variations in Fluoride concentration in groundwater- A case study from hard rock aquifer of Teleangana, India, In Chaminé, H.I. et al (eds.) "Advances in Sustainable and Environmental Hydrology, Hydrogeology, Hydrogeochemistry and Water Resources", Advances in Science, Technology and Innovation, Springer Nature, Switzerland AG, Pages 215-221, DOI: 10.1007/978-3-030-01572-5\_52.
4. Boisson, A., Alazard, M., Picot-Colbeaux, G., Pettenati, M., Perrin, J., Sarah S., Dewandel, B. Ahmed, S., Maréchal, J.C. and Kloppmann, W. (2016) Percolation tanks as managed aquifer recharge structures in crystalline aquifers - an example from the Maheshwaram watershed, Chapter 7 In Thomas Wintgens, Anders Nätörp, Elango Lakshmanan and Shyam R. Asolekar (Eds.) **Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context: Saph Pani**, IWA Publishing, UK. Pages:113-125, ISBN: 978178 0407104.
5. Amerasinghe, P., Mahesh, J. Sonkamble, S., Wajihuddin, M., Boisson, A., Fahimuddin, M. and Ahmed, S. (2016) Characterization and performance assessment of natural treatment systems in a wastewater irrigated micro-watershed: Musi River case study, Chapter 11 In Thomas Wintgens, Anders Nätörp, Elango Lakshmanan and Shyam R. Asolekar (Eds.) **Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context: Saph Pani**, IWA Publishing, UK. Pages: 177-189, ISBN: 978178 0407104.
6. Kloppmann, W., Sandhu, C., Groeschke, M., Pandian, R.S. Picot-Colbeau, G., Fahimuddin, M., Ahmed, S., Alazard, M., Amerasinghe, P., Bhola, Punit., Boisson, A., Elango, L., Feistel, U., Fischer, S., Ghosh, N.C., Grischek, T., Grutmacher, G., Hamann, E., Nair, I.S., Jampani, M., Mondal, N.C., Monnikhoff, B., Pettenati, M., Rao, S., Sarah, S., Schneider, M., Sklorz, S., Thiery, D. and Zabel, A. (2016) Modeling of natural water treatment systems in India: learning from the Saph Pani case studies, Chapter 14 In Thomas Wintgens, Anders Nätörp, Elango Lakshmanan and Shyam R. Asolekar (Eds.) **Natural Water Treatment Systems for Safe and Sustainable Water Supply in the Indian Context: Saph Pani**, IWA Publishing, UK., Pages: 227-249, ISBN: 978178 0407104
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