

## Candidate for IUGS Executive Committee

**Position: Councilor 2020-2024**

**Name:** DR. TANVI ARORA

**Affiliation:** Scientist (Hydrogeophysicist),  
CSIR- National Geophysical Research  
Institute,  
Hyderabad, India  
E: [TANVI@NGRI.RES.IN](mailto:TANVI@NGRI.RES.IN),  
[TANVI.GPY@GMAIL.COM](mailto:TANVI.GPY@GMAIL.COM)  
T: +91 40 2701 2624 (Off); +91 94419  
01402 (Cell)



**Nominating Organization:** Young Earth Scientist Network

### **Biography:**

Dr. Tanvi ARORA, Scientist working at Indian Geophysical Research Institute (<http://www.ngri.org.in/researcher/drtanvi-arora.php>) has about 11 SCI publications to her scientific career, leading to 300 citations. Her work includes the application of integrated Hydrological and Geophysical methods for successful Managed Aquifer Recharge (MAR) studies in Hard rock areas and Karst aquifers, which are highly cited and global problems. At present she is working on the contamination plume migration studies of the Landfill site in India. She was an integral part of the European project Saph-Pani ([www.saph-pani.eu](http://www.saph-pani.eu) ; Grant agreement No.282911, 2011-2014) in which she located the efficacy of recharge structures over karst aquifers and assessed the feasibility of MAR through hydrogeophysics. She successfully completed the International project work in Niger, South Africa towards locating the locations for 250 borewells on the basis of geophysical datasets. Dr. Arora is actively involved in imparting her research work through classroom teaching as well as practical field trainings, at both national and international platforms.

### **Statement:**

I completed PhD on a very important aspect for hydrological sciences i.e. Vadose zone hydrology. Unsaturated zone is quite complex and not many researchers around the globe undertake such challenging topic. The fluid flow mechanism in the unsaturated zone through which the recharge takes place is extremely complex and I try to tackle this by an integrated approach. During professional career of nearly 2 decades in hydrogeophysics, I have learned that every objective is a new problem every time. And there is almost no routine job in the field. This pulls my enthusiasm, couples with scope for innovations and opportunities available in the field of

Geophysics; and has motivated me to go beyond the boundaries and contribute to the society through a meaningful outreach from a reputed organization none other than IUGS.

I am involved in YES Network since 2010, contested for Indian Representative and got elected in 2010. Still serving the nation, upgraded my services on the Regional level and was elected as Regional Representative of South-East Asia in 2012. I was elected by Executive Committee as the Secretary General of the Network (2013). Growing from grass root level to an important place is really an honor. I would gist down major responsibilities taken up during the tenure of SG (2013-2019): Organizing the 3rd YES Congress at Tanzania and 4<sup>th</sup> YES Congress at Iran were a big task undertaken which broadly includes Formulation of circulars, Notifications, Review of abstracts, Approaching the sponsors towards financial support, getting into publishing the special issue in the Journal of African Earth Science etc. I supported various activities initiated by the executive team of YES Network like Women in Geoscience Survey, Geoethics among Young Earth Scientist, publishing research works, etc. My communication and management skill has always helped the Network to leap to next levels.

I would like to act as an important support to bridge the gap between the YES Network and IUGS, the main governing body for Geoscience research around the globe. If selected as the councilor member of IUGS team, I will try to reduce the “geo-gap” between experience professional and upcoming ideas. I will be honored if given a chance to conduit between the creative imaginations from the riveting geo-generation to be harnessed by the sophisticated approach of the experience professional of the Earth science community.

Given an opportunity, I would use my skills of being an earth scientist and the creativity of the management domain, to deliver the vision of IUGS on micro level of the globe.

