**Theme of symposium**

The theme of symposium for this year is ‘**Innovation in Civil Engineering and Smart Infrastructure’**. Innovation implies “new”. This is an open theme. By keeping our theme so, we are not restricting the inputs to any particular topic. We encourage everyone to participate in our symposium.

"New" ideas is a bit restrictive - yet hard to pin down, too - new as in not yet implemented, or new as in never before even mentioned. What comes under this theme?

Anyway, here's a general list with some specifics here and there.

* Use civil engineering to save the world (not just us, everything). This could be climate change related and include use of new, more sustainable materials, or materials that change the Earth's albedo and help keep the temperature down
* It could also be innovative uses of sea walls and drainage that reduce energy consumption or generate power whilst mimicking natural processes (i.e. provide habitat)
* or transport schemes (think mag lev, vacuum tube or hyper loop "trains") that use new technologies to yield faster, safer travel and transport at a lower cost, including a lower cost of externalities
* and projects to maximize integration of transport with utilities, including undergrounding of power supplies to reduce outages
* And projects to bridge the gap between current and minimum health and sanitation standards worldwide. Plug the sanitation project into the climate change drainage and anti-flooding scheme, too.
* Or use civil engineering to feed the world (not just us, everything), Integrate irrigation with sanitation, power generation and habitat
* And projects that bridge the gap between current and minimum food supply/nutrition requirements, including natural resource needs, irrigation, water cleaning, recycling and desalination... which feeds into...
* Or use civil engineering to water the world (not just us, everything) and conserve water with piping, recycling and reticulation schemes
* and many other projects that meet the gap between current and minimum water supply quality and conservation standards, including meeting natural resource needs
* Or use civil engineering to house the world (not just us, everything). This is both land and sea housing. Floating airports, communities, even cities powered by wave, tide, sun and wind.
* And projects to make buildings more earthquake resistant
* And projects to meet the gap between current and minimum health, housing and sanitation standards, including those innovative new, more
* or projects to protect, restore and enhance our built historical legacy (be it ancient or not)
* Projects that make the buildings and infrastructure highly resistant to hazards like earthquakes, hurricanes, floods etc.
* Projects where structures are smart enough to send you a notification when a damage or failure is sensed.

You know smart cities and infrastructure is a booming topic right now. So a particular mention is given to this topic.

Thus there is an opportunity for every person doing research in civil engineering to present their work in symposium.

We also encourage you to present your work if you feel it doesn’t fall under this year’s theme.