

About the Conference

Organized under patronage and with participation of *Nobel Prize Laureate in Chemistry 2011*,
Professor Dan Shechtman
and in memory of *Professor Dror Sadeh* (1932-1993) Scientist and Artist

“Beauty will Save the World!” (Fyodor Dostoevsky)

Building on the successful first 2011 *Science, Technology and Art Relations (STAR)* Conference and the enthusiasm engendered from the Proceedings, the organizers and supporters have organized a next building-step that will both expand its domain and take on the application challenges. The general goal is to advance and accelerate applied interdisciplinary research, targeted publication, education, harnessing of financial and political support and broadened application that can demonstrate and support the profound societal values to be gained from programs spanning the STAR spectrum. As a first step, three areas have been identified:

- The role of Arts as a central component of the Humanities in the development of the young generation of physical and social scientists and engineers.
- Using art in its broadest manifestations of media and forms to inform thinking and creativity in science and technology, to more effectively communicate challenging concepts to those working in the fields as well as to the public at large, and to enhance scientific and technological education.
- Application in the special, intersecting and high priority areas of *Water, Energy and Space*.

An integral element of the 2014 Conference will be a “thought advancement Exhibition” designed to associate people who may never have worked together before. Our aims are to generate stimulating debate and to open a space for action collaboration. Specifically, we seek to build a committed new global STAR community and an exiting and potent forum of scientists, engineers, artists, architects, students and educators.

Introductory Lectures – oral presentations according to submitted abstracts.

Action Oriented Workshops (to include):

- Educational curricula, exercises/cases & course settings (e.g., design) across teaching levels
- Applied research and applications publishing (with interfaces and links to existing journals/articles and a place for new papers)
- Outreach, learning community development - who should be involved and how; events/activities for different audiences; fundraising
- Exploring/explicating the connections (art to science and vice-versa)

Exhibition & Competition – “Limitless: with Endless Possibilities of Creative Collaboration” between artists, technologists and scientists – as selected by a panel, projects will all demonstrate the underlying criteria of: advancement of thought about the selected subject applicable to professionals and/or the general public; aesthetic form; and, innovation. Included may be musical, theater, dance and cinematic performance.

Call for a doctoral STAR student team

In support of and to continue beyond the 2014 conference/exhibition events, a student team will be organized, drawn from each Israeli and international university that offers doctoral study relatable to this interdisciplinary field. This STAR team may include scholars with something to present. In particular, they will be recorders in the workshops, and involved, in many cases as post-docs, in research and to help plan the 2016 programs. The team will receive guidance from a faculty committee drawn from participating universities, under the general leadership of Nobel Laureate Dan Shechtman. Funding is being solicited.

Conference Organizer: ORT Braude College of Engineering, Karmiel, Israel in collaboration with:

- Israeli Association of Engineers, Architects and Graduates in Technological Sciences (Association of Chemical Engineers and Chemists);
- Israel Chemical Society
- Technion, Haifa
- Tel Aviv University
- WIZO Design Academy
- Northwestern University, USA

Dr. Alec Groysman: Chair of Organizing Committee
Chair of Israeli Association Chemical Engineers and Chemists