Biographies

Anitha Sarkar:
I did my Bachelors in Electrical and Electronics from Madras University, India and Masters in Sustainable energy technologies from Eindhoven University of Technology, Netherlands. I specialized in the field of functional thin films for enhancement of solar cell efficiency by spectral conversion. I then continued as a researcher in the Plasma and Materials Processing group at TU Eindhoven, working on techniques for thin film deposition such as Physical, Chemical vapor deposition, and Atomic Layer Deposition(Plasma enhanced PVD, CVD and ALD). During this period I worked on the deposition, analysis and optimization of (noble) metals, metal oxides and nitrides, with applications in the fields of solar cells, energy storage, electrochemical sensing etc. Since 2011, I work as a researcher in Emerging technologies, Shell Global Solutions International.

Personal interest in LENR:

My background in sustainable energy technologies and materials science encouraged me to explore the fascinating field of LENR. With the backing of Shell GameChanger Programme, I am now looking for possibilities to actively work together with experts, and put my experience in thin films and plasmas to use in the field.

Gilles Buchs:
I started my career with a BSc in electrical engineering and pursued with a MSc in physics at ETH Zurich (semiconductor nanostructures, quantum dot optics).
In 2008, I got a PhD in experimental physics where I studied the effect of artificially created defects (vacancies, H- and N-adsorbates) on the electronic structure of carbon nanotubes by means of LT-STM/STS at the Swiss Federal Labs for Materials testing and Research (EMPA) and University of Basel.
Then I moved to the Netherlands as a postodoctoral fellow at the Kavli Institute of Nanoscience at TU Delft where I worked in the field of nano-optoelectronics (building of a confocal microscope setup, nanofabrication, suspended nanotube devices, electrostatic doping, photocurrent and photoluminescence measurements, plasmonics and graphene)
I joined the Emerging Technologies department at Shell Global Solutions International as a researcher in October 2011.

My interest in the field:

I believe that a deep understanding and subsequent control of the (nuclear) reactions which give rise to the observed excess heat and transmutations will be highly promising for solving our energy problems. I would like to study this field more in depth in contact of experts and would be more than glad if I could use my background to bring a contribution in understanding and using LENR.

Our contributions as Shell researchers to the group, field:

- Broad expertise in wide variety of energy conversion systems
- Access to significant group of Shell surface science and catalysis experts
- Access to key related disciplines: thermodynamics, physics, electrochemistry, computational chemistry, heat exchange, etc
- Shell GameChanger program, (www.shell.com/gamechanger) rapidly funds initial proof of concept testing for revolutionary innovation
- Significant expertise and track record of development and scaling-up and from lab-scale to commercial unit of a wide range of complex energy technologies.