

# THE ERUDITE LECTURE SERIES-2021

Organized by  
**KERALA STATE HIGHER EDUCATION COUNCIL &  
MAHATMA GANDHI UNIVERSITY**  
Conducted by  
**SCHOOL OF ENERGY MATERIALS  
MAHATMA GANDHI UNIVERSITY**


## Microscopy for analyzing soft matter

### TOPIC

- Talk 1 Soft Matter
- Talk 2 Microscopy for analyzing soft matter
- Talk 3 Topographical Imaging of soft matter
- Talk 4 Mechanical properties and compositional mapping
- Talk 5 Advanced AFM methods and hyphenated techniques

Soft matter" is a convenient term for materials that are easily deformed by thermal fluctuations and external forces. Soft materials are important in a wide range of technological applications. They may appear as structural and packaging materials, foams and adhesives, detergents and cosmetics, paints, food additives, lubricants and fuel additives, rubber in tires, etc. In addition, a number of biological materials (blood, muscle, milk, yogurt) are classifiable as soft matter. Thus studying the generic properties of soft matter can give fresh insights into a broad range of fundamental questions that cut across the whole of condensed matter physics, e.g. concerning the nature of disordered solids.

**DATE : 2021 OCTOBER 19 to 23**  
**TIME : 5 - 7pm IST**

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EXPERT SPEAKER

**Prof. Dr. Holger Schönherr**  
University of Siegen, Germany


### SPEAKER PROFILE

Prof. Holger Schönherr is currently the Chair in Physical Chemistry and Dean, School of Science and Technology, University of Siegen, Germany.

Holger Schönherr studied chemistry and polymer chemistry & physics at the Universities of Mainz and Toronto and obtained his Ph.D. at the University of Twente, The Netherlands in 1999. Following a postdoctoral stay at Stanford University, he joined MESA+ Institute for Nanotechnology in Twente as assistant (later associate) professor before joining the University of Siegen in 2008 as a University Professor in Physical Chemistry. In 2013 he was also appointed guest professor at the Shanghai Jiaotong University. He was awarded, among others, with the Schloessmann award (Biology & Materials Science) of the Max Planck Society (1995), the DSM Award (2nd) for Chemistry & Technology (1999), a NWO vernieuwingsimpuls grant (2001), the Raphael-Eduard-Liesegang award of the German Colloid Society (2011), an ERC starting grant (2011), the POLYCHAR Materials Science Award 2013 and Research Prize of the School of Science and Technology of the University of Siegen (2013). His research interests comprise the modification and characterization of organic and polymeric surfaces and (bio) interfaces, micro- and nanostructured materials, and analysis nanobubbles with atomic force microscopy (AFM) and combined AFM-optical methods.



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