

Mediator between academia and industry

Hainer Wackerbarth



Institut für Nanophotonik Göttingen e. V. (founded in 1987 as Laser-Laboratorium Göttingen e.V.)



55 Staff members, 20 scientists and 14 PhD students

4 Departments:

- Optical Nanoscopy (Nobel Laureate Prof. S. Hell, 2014)
- Short Pulses / Nanostructures
- Optics / Short Wavelength
- Photonic Sensor Technology
- Intermediary function between academia and industry
- Application-oriented basic research in the field of optical technologies
- Non-profit making, supported by the State Lower Saxony
- Promotion of science and research via technology and knowledge transfer

Technology and knowledge transfer





Photonics is an "Enabler" which can contribute to solve the great challenges of our times.

Department Optics / Short Wavelengths



EUV- & soft X-ray





Characterization of light sources





Characterization of optics





Department Short Pulses / Nanostructures







Laser induced nanostructures



Microoptical structures







Novel imaging techniques





Adaption and application







Structuring and analysing







Optical spectroscopy

Laser induced breakdown spectroscopy



Plasmonics

Temperatur on nanostructures



Surface enhanced Raman spectroscopy for environmental analysis



Annual reports: https://www.ifnano.de/en/the-institute/

Sensor fusion & gas analysis

Smart home air quality



Damage detection for Li-ion batteries





Department - Photonic sensor technology





Goal: Marker molecules, chemical composition

