

PROGRAM

Monday 7 December 2015

17:00 – 21:00	Registration
from 18:00	Buffet Dinner / Informal Get-Together

Tuesday 8 December 2015

08:30 – 09:00	Dr. Ernst Dreisgacker	Welcome and Introduction (WE-Heraeus-Foundation)
09:00 – 09:50	Nadrian Seeman	DNA: Not merely the secret of life
09:50 – 10:00	Discussion	
10:00 – 10:35	Yonggang Ke	Programmable DNA origami for 2D and 3D plasmonic metamaterials
10:35 – 10:45	Discussion	
10:45 – 11:15	Coffee	
11:15 – 11:50	Dan Luo	Behavior and applications of DNA-based, 1D, 2D, and 3D assembly
11:50 – 12:00	Discussion	
12:00 – 12:35	Cees Dekker	Plasmonic nanopores for detection of single DNA molecules
12:35 – 12:45	Discussion	
12:45 – 13:00	Seham Helmi	Controllable synthesis of gold nanowires using DNA origami molds
13:00 – 13:05	Discussion	
13:05 – 14:45	Lunch Break	
14:45 – 15:20	Romain Quidant	Nanoplasmonics tools for the detection and manipulation of biomolecules
15:20 – 15:30	Discussion	
15:30 – 16:05	Vahid Sandoghdar	Plasmonic nanoantennae for enhancing spontaneous emission by several orders of magnitude
16:05 – 16:15	Discussion	
16:15 – 16:30	Thorsten Schmidt	Enabling technologies to increase assembly yields of DNA-based plasmonic devices
16:30 – 16:35	Discussion	
16:35 – 17:00	Coffee	
17:00 – 17:35	Carsten Rockstuhl	Functional photonic nanostructures from self-assembled metallic nanoparticles
17:35 – 17:45	Discussion	
17:45 – 18:25	Robert Schreiber	Controlled assembly of plasmonic elements using DNA Origami scaffolds
18:25 – 18:35	Discussion	
18:35 – 18:50	Summarizing Discussion	
18:50 – 20:30	Dinner	
20:30 – 21:00	Poster Flash Presentations	
21:00	Poster Session	

Wednesday 9 December 2015

09:00 – 09:35	Ralf Jungmann	Quantitative multiplexed super-resolution imaging with DNA-PAINT and Exchange-PAINT
09:35 – 09:45	Discussion	
09:45 – 10:20	Guillermo Acuna	Plasmonics for single molecule fluorescence enhancement
10:20 – 10:30	Discussion	
10:30 – 10:45	Michael Mertig	Single DNA molecule trapping by dynamic inhomogeneous temperature fields
10:45 – 10:50	Discussion	
10:50 – 11:15	Coffee	
11:15 – 11:50	Mario Raab	Visualization of the light coupling into a plasmonic nanoantenna via 3D-DNA-PAINT
11:50 – 12:00	Discussion	
12:00 – 12:35	Ashwin Gopinath	Engineering and mapping photonic nanocavity emission via precision placement of DNA origami
12:35 – 12:45	Discussion	
12:45 – 14:45	Lunch Break	
14:45 – 15:20	Chengde Mao	DNA-directed assembly of gold nanoparticles
15:20 – 15:30	Discussion	
15:30 – 15:45	Francesco Ricci	Using Nature's "tricks" to design and optimize DNA-based sensors
15:45 – 15:50	Discussion	
15:50 – 16:25	Nicholas Kotov	Chiral assemblies of nanoparticles
16:25 – 16:35	Discussion	
16:35 – 16:50	Summarizing Discussion	
17:00 – 19:00	Excursion	
19:00 – 20:30	Dinner	

Thursday 10 December 2015

09:00 – 09:50	Itamar Willner	Controlling plasmonic effects by DNA nanostructures
09:50 – 10:00	Discussion	
10:00 – 10:35	Sébastien Bidault	Building optical antennas with DNA
10:35 – 10:45	Discussion	
10:45 – 11:00	Ilko Bald	Application of DNA-AuNP hybrid structures for surface-enhanced Raman scattering (SERS) and DNA radiation damage research
11:00 – 11:05	Discussion	
11:05 – 11:30	Coffee	
11:30 – 12:05	Masayuki Endo	Single-molecule imaging of photoresponsive molecular system constructed in the DNA nanostructures
12:05 – 12:15	Discussion	
12:15 – 12:50	Dieg Gárg	Programmable Nano-Systems and Their Transformations
12:50 – 13:00	Discussion	
13:00 – 13:15	Eva-Maria Roller	Nanoscale DNA origami based plasmonic structures
13:15 – 13:20	Discussion	
13:20 – 15:00	Lunchbreak	
15:00 – 15:15	Florian Sterl	Magnesium as a novel material for active plasmonics in the visible wavelength range
15:15 – 15:20	Discussion	
15:20 – 15:55	Hendrik Dietz	Molecular Systems Engineering with DNA
16:05 – 16:05	Discussion	
16:05 – 16:30	Coffee	
16:30 – 16:45	Mario Hentschel	Optical rotation reversal and circular dichroism in resonantly and off-resonantly coupled plasmonic nanosystems
16:45 – 16:50	Discussion	
16:50 – 17:40	Alexander Govorov	Bio-inspired Plasmonic Nano-assemblies with Novel Optical Properties: Chirality, Electromagnetic Interference Effects, Transmission Window
17:40 – 17:50	Discussion	
17:50 – 18:05	Summarizing Discussion	
18:05 – 19:45	Dinner	
19:45 – 20:00	Lina Persechini	The editorial process at Nature Communications
20:00 – 20:30	Poster Flash Presentations	
20:30	Poster Session with Award of Best Poster Prizes	

Friday 11 December 2015

09:00 – 09:35	Friedrich Simmel	Using DNA and lithography to create hybrid nanostructures
09:35 – 09:45	Discussion	
09:45 – 10:00	Wolfgang Fritzsche	Plasmonically induced excitation and its transfer along DNA-nanowire
10:00 – 10:05	Discussion	
10:05 – 10:55	Christina Lambertz	Molecular sensing with single plasmonic nanoparticles
10:55 – 11:05	Discussion	
11:05 – 11:30	Coffee	
11:30 – 12:05	Harald Giessen	Complex functional plasmonics
12:05 – 12:15	Discussion	
12:15 – 12:45	Panel Discussion	
12:45 – 13:00	Summary and Closing Remarks	
13:00 – 15:00	Lunch	
from 15:00	Departure	

