

Cryo-TEM in Materials Science
2nd International Cryo-TEM Workshop
April 7th – April 11th 2014

Eindhoven University of Technology
&
FEI Company
Eindhoven, The Netherlands.

Cryo TEM in material science

2nd International Cryo-EM Workshop 2014

Advancements in cryo-electron microscopy have made it possible to image biological related objects, such as viruses and proteins, at near atomic resolution, but also to allow the investigation of soft matter systems of synthetic origin. TU/e has pioneered using the most advanced cryo-electron microscope (Titan Krios) on soft matter material science. The use of this microscope in combination with dedicated sample preparation and imaging techniques has provided (sub)-nanometer resolution in self-assembly and materials synthesis, including time resolved studies, as well as the three dimensional structure of different soft matter and hybrid structures.

Due to the increased interest in the cryo-TEM analysis of soft matter and hybrid materials we are organizing the second joint workshop on cryoTEM for Materials Science. The workshop will be held at TU e and FEI Company and highlight the latest technology in cryo-TEM. The workshop is aimed at participants at PHD/post doc level who are experienced in basic microscopy and whom wish to extend their knowledge in 2D and 3D cryo imaging and analysis. The workshop will entail training in sample preparation and imaging but also includes lectures to build theoretical knowledge. In addition, time will be reserved for preparing and processing (your own) specimens.

Costs: € 1500 (excluding travelling and hotel costs)

Participants: max. 15

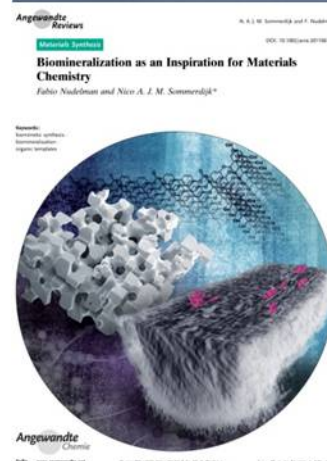
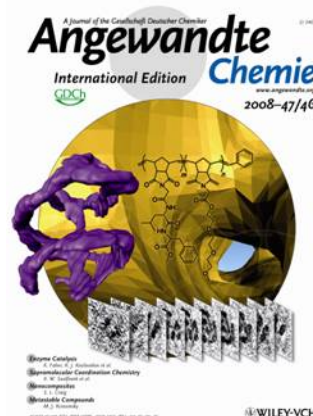
Hotel recommendations: Hotel Lumiere,
Hooghuisstr. 31A, 5611 GS Eindhoven
Phone: + 31(0)40 239 4950

Coffee and lunches will be provided by the organization.

For more information: <http://www.cryotem.com/>

To register please send an email to wim.busing@fei.com

Please do not book transportation or accommodation before receiving a confirmation of your registration, there are only 15 places available.



Workshop program

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30 - 10:30	World of welcome and introduction	Hands on: CryoTEM	Lecture: Tomography	Lecture: Reconstruction	CryoTEM in material science summary
Coffee					
10:45 - 12:30	Lecture: Introduction in CryoTEM	Hands on: CryoTEM	Demonstration : Tomography	Demonstration and hands on	Evaluation of the workshop Certificates and closing
Lunch					
13:30 - 17:00	Instruction CryoTEM: Preparation and imaging	Hands on: CryoTEM	Hands on: Tomography	Hands on: " Prepare and image your own specimen"	Departure
19:00 - ?			Social event Trafalgar Pub		

Organization:

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 Phone: 31 40 235 6115

Bank account for CRYO-TEM 2014 workshop

Please mention the number **373000 / 1002417** with your payment

IBAN (International Bank Account Number) NL42RABO0158249658

SWIFTCODE RABONL2U

Address bank:

RABOBANK EINDHOVEN
 P.O. BOX 301
 5600 AH EINDHOVEN

Address:

Eindhoven University of Technology
 Helix Building STO 2.91
 Den Dolech 2 / P.O. BOX 513
 5600 MB Eindhoven / The Netherlands
 (For a map please see www.cryoTEM.com)