



MICRESS Advanced Training 2020

-tentative schedule-
subject to changes without notice

ACCESS, Intzestr. 5, D-52072 Aachen, Germany

Wednesday, April 1st 2020 (9:00-17:30)

9:00 -9:15	Welcome <ul style="list-style-type: none"> getting acquainted 	GJS
9:15 – 9:30	1.) Overview/Review of MICRESS and its modules : <ul style="list-style-type: none"> TQ module Elastic module Flow module Homat 	GJS
9:30 - 10:15	2.) Advanced aspects of thermodynamic coupling <ul style="list-style-type: none"> Diffusion data/infinite diffusion/advanced options Composition sets Miscibility gaps Stoichiometric options NPLE/Para... Complex alloy systems 	BB
10:15 – 10:30	Coffee break	
10:30 - 11:30	3.) Exercises “thermodynamic coupling” <ul style="list-style-type: none"> CMSX-4 ripening Diffusion data Composition sets NPLE/Para... Creation of a ges5 file 	BB
11:30 – 12:15	4.) Anisotropy <ul style="list-style-type: none"> Static/kinetic anisotropy 2D Spherical harmonics/3D Faceted growth Orientation relations 	JE
12:15 – 13:00	5.) Exercises anisotropy	JE
13:00 - 14:00	Lunch break	
14:00 – 14:30	6.) Grain Growth and Recrystallisation <ul style="list-style-type: none"> Stored energy/dislocation density Misorientation model Humphreys model .. 	JE/GL



	<ul style="list-style-type: none"> ▪ ... 	
14:30 – 15:30	7.) Exercises: Recrystallisation <ul style="list-style-type: none"> ▪ .. ▪ ... 	JE/GL
15:30 – 16:00	Coffee break	
16:00 – 17:30	8.) Exercises (freestyle) Free discussion/topics of interest by participants Informal meeting in Aachen	Tutors

Thursday, April 2nd 2020 (9:00-17:30)

9:00-9:45	9.) The MICRESS elastic module	BZ/BB
9:45 – 11:15	10.) Exercises “elastic module” <ul style="list-style-type: none"> • ... 	BZ/BB
11:15- 11:30	Coffee break	
11:30 -12:30	11.) MICRESS: Special functionalities <ul style="list-style-type: none"> • Add_to_grain • Restart structure only • ... 	BB
12:30 – 13:30	Lunch break	
13:30 - 14:15	12.) The MICRESS flow module	RB/AV
14:15 – 15:30	13.) Exercises flow module	RB/AV
15:30 – 16:00	Coffee break	
16:00 -17:30	14.) Exercises free style	RB/AV

Friday, April 3rd 2020 (9:00-17:30)

9:00 – 10:30	15.) The Homat Module <ul style="list-style-type: none"> • Overview • Mesh2XXX – Mesh2HOMAT • Thermal Homogenization • Thermomechanical Homogenization • Stokes Flow Homogenization • Homogenization of incompressible materials 	GL MBu
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	<ul style="list-style-type: none"> • Localization analysis • Mesh2Abaqus and Aba2Hom.py • Effective Flow curves 	
10:30 – 10:45	16.) Coffee break	
10.45 -12:00	Homat exercises	GL
12:00 - 13:00	Lunch break	
13:00 – 14:00	17.) MICRESS in ICME settings <ul style="list-style-type: none"> ▪ AixVipMap 	GJS LK
14:00 – 14:45	18.) Tips and Tricks for Optimization	ALL
14.45 - 16.00	19) Exercises free style	ALL
16:00 – 17:30	Final remarks/ optional lab tour/farewell	ALL

Tutors:

BB	-	Dr. Bernd Böttger
GJS	-	Dr. Georg J. Schmitz
JE	-	Dr. Janin Eiken
RB	-	Dr. Ralf Berger
GL	-	Dr. Gottfried Laschet
MA	-	Dr. Markus Apel
MBu	-	Dr. Michael Budnitzki
LK	-	Lukas Koschmieder



MICRESS Advanced Training 2020

April 1st to 3rd 2020

Registration Form

Please fill and fax to

Access e.V., Intzestr. 5, D-52072 Aachen

Tel.: +49-241-8098014, Fax: +49-241-38578,
info@micress.de

Please register me for above MICRESS® training course:

Name	
First Name	
Affiliation	
Adress	
E-mail	
Phone	

The participation fee (excl. VAT) is 750 € for participants from academia and 1000 € for participants from industry. It comprises all coffee breaks, lunch at all three days of the course, participation in the evening event and an electronic documentation of the course lectures. The participation is limited to a maximum of 10 participants. One computer will be provided for use by each participant.

Please select payment options: cash on site ☐ or invoice ☐

place,date

signature