



## Pre-conference Workshop on Qualitative and Quantitative Analysis of Clays Program 1/2

Wednesday 5.10.2005				
time	room	oral/exc.	topic	speaker / lab group
start			every participant gets a workshop sample (incl. Group No. + XRD-scan)	
08:30	F119		<i>welcome</i>	
09:00	<b>F119</b>	oral	crystal structures	<b>Dohrmann</b> (45 min.)
09:45	<b>F119</b>	oral	XRD 1-dim	<b>McCarty</b> (45 min)
10:30			<i>Coffee</i>	
11:00	<b>F119</b>	oral	application in oil business	<b>McCarty</b> (45 min)
11:45	<b>F119</b>	oral	Intercalation	<b>Plötze</b> (45 min)
12:30			<i>lunch</i>	
13:30	<b>F119</b>	oral	texture	<b>Dohrmann</b> (30 min.)
14:00	<b>lab D</b>	<b>Exc1a</b> <b>excercise</b>	texture analysis (TSA)	<u>group 1: Dohrmann/Schleuning</u> texture analysis (3003 TT + TSA)
14:45			<i>Coffee</i>	
15:15	<b>lab D &amp; F119</b>	<b>Exc1b</b> <b>excercise</b>	intercalation examples and texture slides	<u>group 2: Plötze</u> : intercalation examples, show glas- and ceramic preparation
16:00	<b>PC B1409</b>	oral	powder diffraction and fundamental parameter Rietveld	<b>Kleeberg</b> (90 min)
until 17:30				

Thursday 6.10.2005				
time	room	oral/exc.	topic	speaker / lab group
09:00	<b>PC B1409</b>	<b>Exc3</b> <b>excercise</b>	fundamental parameter Rietveld	<b>Kleeberg</b> (90 min)
10:30			<i>coffee</i>	
11:00	<b>PC B1409</b>	<b>Exc3</b> <b>excercise</b>	qualitative analysis of complex samples	<b>Kleeberg</b> (90 min)
12:30			<i>lunch</i>	
13:30	<b>PC B1409</b>	oral	turbostratrical disorder	<b>Ufer</b> (45 Min.)
14:15	<b>PC B1409</b>	oral	disaggregation	<b>Dohrmann</b> (45 min.)
15:00			<i>Coffee</i>	
15:15	<b>lab D&amp;E</b>	<b>Exc4a</b> <b>excercise</b>	disaggregation	<u>Group 1</u> : Kaufhold, Bardenhagen look at chemical removement
15:45	<b>lab D&amp;E</b>	<b>Exc4b</b> <b>excercise</b>	disaggregation	<u>Group 2</u> : Dohrmann washing and dialysis
16:15	<b>F119</b>	<b>Poster session</b>		Everybody who brought a poster briefly explains it
until 17:30				

### Posters

Influence of the inorganic counter-ion of iodide on the adsorption behaviour of organo-bentonites. Presented by J. Behnsen

Development, characteristics and assessment of clay rich subsoil horizons in soils on limestone of the North German hilly region. Presented by A. Fier

Analysis of clays and bentonites from Czech Republic. Presented by M. Hruskova

Experimental alteration of volcanic glass in laboratory conditions. Presented by M. Osacký.



## Pre-conference Workshop on Qualitative and Quantitative Analysis of Clays

### Program 2/2

Friday		7.10.2005		
time	room	oral/exc.	topic	speaker / lab group
09:00	<b>F119</b>	oral	specific surface area	<b>Kaufhold</b> (45 min)
10:00	<b>F119</b>	oral	IR - Spektroskopy	<b>Kaufhold</b> (45 min)
10:45 <i>Coffee</i>				
11:00	<b>lab D</b>	<b>Exc5a</b>	<b>excercise</b> IR - Spektroskopy	<u>Group 1:</u> Klinkenberg: ATR-scans of workshop samples
11:00	<b>lab D</b>	<b>Exc5b</b>	<b>excercise</b> IR - Spektroskopy	<u>Group 2:</u> Kruse ATR-scans of workshop samples
13:00 <i>lunch</i>				
14:00	<b>F119</b>	oral	optical characterisation	<b>Klinkenberg</b> (45 min.)
14:30	<b>E218</b>	<b>Exc6a</b>	<b>excercise</b> optical characterisation	<u>Group 1:</u> every participant looks at her/his workshop sample (ESEM)
16:00 <i>Coffee (during exercise Ü6b)</i>				
16:00	<b>D29</b>	<b>Exc6b</b>	<b>excercise</b> optical characterisation	<u>Group 2:</u> Binocular, Fotos
until 17:15				
<b>17:25 bus to Regenwaldhaus (rain forest house), bat guidance, some drinks and snacks</b>				

Saturday		8.10.2005		
time	room	oral/exc.	topic	speaker / lab group
09:00	<b>F119</b>	oral	CEC	<b>Dohrmann</b> (45 min.)
09:45	<b>F119</b>	oral	LCD	<b>Kaufhold</b> LCD (45 min.)
10:30 <i>Coffee</i>				
11:00	<b>lab D</b>	<b>Exc7a</b>	<b>excercise</b> CEC	<u>Group 1:</u> all get a sample, weight it, disperse it, batch it, centrifuge it and measure by VIS, then calculate CEC, measure water content in between
12:00	<b>lab D</b>	<b>Exc7b</b>	<b>excercise</b> LCD	<u>Gruppe 2:</u> show LCD equipment, show peak evaluation, some try self using internal talk (height error correction)
13:00 <i>lunch</i>				
14:00	<b>PC B1409</b>	oral	complex quantification	<b>Kaufhold</b> introduction, examples, problems, the smectite problem (30 min.)
14:30 <i>Coffee</i>				
15:00 - 16:00	<b>PC B1409</b>	<b>Exc8</b>	<b>excercise</b> complex quantification	two semiquantitative compositions are given and chemical composition; try to quantify that!

### Note:

- Every day there will be coffee, tea and water free during coffee breaks.
- Lunch can be obtained in the casino (ca. 3-5 € per meal, different types, salates, desserts). On Saturday we order pizza, chicken or anything else.
- The rain forest house trip is included in the workshop fee.

Hannover, Sept. 29<sup>th</sup> 2005