

21. Febr. 2003

ISSCG 12 – Schedule

Sunday – The day of travelling and introduction

14 –18:30 (Special introductory lectures for beginners)

- introduction into crystal growth (Director of IKZ Berlin, to be confirmed)
- crystal growth techniques (G.Müller)
- introduction into growth kinetics (J.J. Metois)
- introduction into crystal defects (P.Rudolph)

evening: welcome party

Monday – The day of fundamentals

morning

8:30	-	9:30	Thermodynamics of modern epitaxy processes (Stringfellow)
9:30	-	10:30	Actual concepts of interface kinetics (Jackson)
10:30	-	11:00	coffee break
11:00	-	12:00	Theory of Crystal Growth Morphology (Sekerka)
12:00	-	13:00	Crystallization Physics in Biomacromolecular Systems (Chernov)
13:00	-	14:00	lunch

afternoon

16:00	-	18:00	tutorial seminars
			<ul style="list-style-type: none">• Modelling of Crystal Growth, Part I (Miller, Neugebauer)• Course on numerical simulation on PCs, Part I (Jung)• Growth of Biological Crystals (Veesler)

18:30	-	19:30	dinner
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evening

20:00	-		Student Poster Session, Industrial Exhibition
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Tuesday – The day of Modeling

morning

8:30	-	9:30	Modeling of crystal growth processes (Derby)
9:30	-	10:30	Modeling of fluid dynamics in melt growth (Kakimoto)
10:30	-	11:00	coffee break
11:00	-	12:00	Molecular dynamics of crystal growth processes (v.d. Eerden)
12:00	-	13:00	Computation of dislocation dynamics (Zaiser)
12:30	-	14:00	lunch break

afternoon

16:00	-	18:00	tutorial seminars
			<ul style="list-style-type: none">• Modelling of Crystal Growth, Part II (Miller, Neugebauer)• Course on numerical simulation on PCs, PartII(Jung)• Modelling and Analysis of Phase Diagrams (Klimm and Mühlberg)
18:30	-	19:30	dinner

evening

20:00	-		special event
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Wednesday – The day of future topics

morning

8:30	-	9:30	Study of Crystal Growth Phenomena under Microgravity (Glicksman)
9:30	-	10:30	Materials and Crystal Growth for Photovoltaics (Surek)
10:30	-	11:00	coffee break
11:00	-	12:00	Nanocrystals and Nanotubes (Loiseau)
12:00	-	13:00	Lunch
13:00			Start of excursion to Berlin

afternoon and evening

Excursion to Berlin (centre), sight seeing and boat trip

Thursday – The day of crystal growth technology

morning

8:30	-	9:30	Growth of Silicon Single Crystals (von Ammon)
9:30	-	10:30	Growth of oxide crystals for non-linear optics and sensors (Chai)
10:30	-	11:00	coffee break
11:00	-	12:00	Microchannel Epitaxy – Physics of Lateral Growth and its Applications (Nishinaga)
12:00	-	13:00	Epitaxial Technology of Modern Optoelectronic Devices (Hommel)
13:00	-	14:00	lunch

afternoon

16:00	-	18:00	tutorial seminars
			<ul style="list-style-type: none">• MOCVD of Compound Semiconductors (Heuken)• Fundamentals of Epitaxial Growth (Pimpinelli, to be confirmed)• Course on numerical simulation on PCs, Part III (Jung)
18:30	-	19:30	dinner

evening

20:00	-		special event
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Friday – The day of crystal defects and characterization

morning

8:30	-	9:30	Point Defects in Semiconductors (Hurle)
9:30	-	10:30	Synchrotron Radiation X-Ray Imaging (Baruchel)
10:30	-	11:00	coffee break
11:00	-	12:00	Macromolecular Crystals – Growth and Characterization (Garcia-Ruiz)
12:00	-	13:00	In-situ analysis by AFM (Köhler)
13:00	-	14:00	lunch

afternoon

16:00	-	18:00	tutorial seminars
			<ul style="list-style-type: none">• High-resolution electron microscopy (Strunk)• X-ray methods (Leipner,)• Electrical and spectroscopic analysis of point defects (Irmscher)
18:30	-	19:30	dinner

evening

20:00	-	special event
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