

ICCGE-19 OMVPE-19		Torreys Peak II-IV	Shavano Peak	Red Cloud Peak	Crestone Peak I,II	Crestone Peak III,IV	Grays Peak I	Grays Peak II,III	Columbine Ballroom	
Monday 7/29										
7:00-7:30	Breakfast	Breakfast								Vendor Area Open
7:30-8:00										
8:00-8:30	Intro & Plenary	Introduction & Plenary-Session Robert Feigelson, Thierry Duffar (Colorado Rockies Ballroom: Shavano Peak and Red Cloud Peak)								
8:30-9:00										
9:00-9:30										
9:30-10:00										
10:00-10:30										
10:00-10:30	Break	Break								
10:30-11:00	Session M2	Wide Bandgap Growth and Characterization	Industrial Crystal Growth and Technology I	Special Session - Michael Schieber I	Nonlinear Optical and Laser Host Materials I	Symposium on 2D Materials: Characterization and Devices	Symposium on Ferroelectric Crystals and Textured Ceramics: Perovskite ferroelectric crystals	Symposium on Epitaxy on Complex Oxides: Batteries and Epitaxial Nanocomposites		
11:00-11:30										
11:30-12:00										
12:00-12:30	Lunch	Lunch								
12:30-13:00										
13:00-13:30										
13:30-14:00	Session M3	Thin Films: Nitride and Oxide Thin Films	Industrial Crystal Growth and Technology II	Special Session - Michael Schieber II	Nonlinear Optical and Laser Host Materials II	Symposium on 2D Materials: Beyond Graphene and TMDs	Symposium on Ferroelectric Crystals and Textured Ceramics: Characterization of Ferroelectric Crystals	Symposium on Epitaxy of Complex Oxides: Freestanding Crystalline Oxide Membranes		
14:00-14:30										
14:30-15:00										
15:00-15:30	Break	Break								
15:30-16:00	Session M4	Thin Films: Epitaxy of III-V Thin Films and Superlattices	Joint Session: Bulk Crystal Growth & III-V Wide Bandgap Nitride Semiconductors: Bulk GaN Crystal Growth	Detector Materials: Numerical Simulation and Semiconductors	Nonlinear Optical and Laser Host Materials III	Symposium on 2D Materials: Graphene and Graphene-Related Processes	Symposium on Ferroelectric Crystals and Textured Ceramics: Doped Relaxor-PT Ferroelectric Crystals	Symposium on Epitaxy of Complex Oxides: Complex Oxides from Metalorganic Precursors		
16:00-16:30										
16:30-17:00										
17:00-17:30										
17:30-18:00	Posters	Posters (Columbine Ballroom)								Vendor Reception
18:00-18:30										
18:30-19:00										
19:00-19:30	Break	Break								
19:30-20:00	OMVPE Evening Session	Advanced MOCVD Technology for the Future								
20:00-20:30										
20:30-21:00										
21:00-21:30										

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Tuesday 7/30										
7:00-7:30	Breakfast	Breakfast								Vendor Area Open
7:30-8:00										
8:00-8:30	Plenary Awards	Plenary Session IOCG Prize Talks (Colorado Rockies Ballroom: Shavano Peak and Red Cloud Peak)								
8:30-9:00										
9:00-9:30										
9:30-10:00										
10:00-10:30										
10:00-10:30	Break	Break								
10:30-11:00	Session Tu2	Thin Films: Novel Materials and Processes	Bulk Crystal Growth: Focus on Technology	Industrial Scintillator & Detector Growth	Modeling of Crystal Growth Processes I	Symposium on 2D Materials: Vapor Phase Synthesis of TMDs	Symposium on Ferroelectric Crystals and Textured Ceramics: Textured Relaxor-PT Ceramics	Symposium on Epitaxy of Complex Oxides: Defects		
11:00-11:30										
11:30-12:00										
12:00-12:30										
12:30-13:00	Lunch	Lunch								
12:30-13:00										
13:00-13:30										
13:30-14:00	Session Tu3	Semiconductor Quantum Dots and Nanostructures	Bulk Crystal Growth: Focus on Silicon	Detector Materials: Halide Scintillators	Modeling of Crystal Growth Processes II	Symposium on 2D Materials: Special Topics I: h-BN	Symposium on Ferroelectric Crystals and Textured Ceramics: Ferroelectric Relaxor-PT Crystal Growth	Symposium on Epitaxy of Complex Oxides: Binary Oxides		
14:00-14:30										
14:30-15:00										
15:00-15:30	Break	Break	Break	Break	Break	Break	Break	Break		
15:30-16:00	Session Tu4	Nanowires	Bulk Crystal Growth: Semiconductors	Detector Materials: Oxide Scintillators	Surfaces and Interfaces	III-V Wide Bangap Devices	Bulk and Epitaxial Growth of Gallium Oxide	Symposium on Epitaxy of Complex Oxides: Defafossites and Oxides on Semiconductors		
16:00-16:30										
16:30-17:00										
17:00-17:30										
17:30-18:00	Posters	Posters (Columbine Ballroom)								
18:00-18:30										
18:30-19:00										
19:00-19:30	Break	Break								
19:30-20:00	OMVPE Evening Session	Advanced OMVPE technology for Wide Bandgap III-Nitrides								
20:00-20:30										
20:30-21:00										
21:00-21:30										

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Wednesday 7/31									
7:00-7:30	Breakfast	Breakfast							Vendor Area Open
7:30-8:00									
8:00-8:30	Session W1	III-V Devices	Joint Session: Bulk Crystal Growth & Detector Materials- Scintillators and Semiconductors	Special Session - George Gilmer I	Fundamentals of Crystal Growth: Impact of chemical and structural heterogeneities	Symposium on 2D Materials: Special Topics II: h-BN	Nanocrystals and Nanostructured Materials	Symposium on Epitaxy of Complex Oxides: Beyond the Limits of Traditional Film Growth	
8:30-9:00									
9:00-9:30									
9:30-10:00									
10:00-10:30									
10:00-10:30	Break	Break							
10:30-11:00	Session W2	Silicon PV	Advanced Equipment and Growth Technology	Special Session - George Gilmer II	Fundamentals of Crystal Growth: Surfaces and interfaces	Symposium on 2D Materials: Special Topics III: h-BN	Symposium on Ferroelectric Crystals and Textured Ceramics & Bulk Crystal Growth: Piezoelectric Single Crystal: Growth and Characterization	Symposium on Epitaxy of Complex Oxides: Growth of Stannates by MBE	
11:00-11:30									
11:30-12:00	Registration								Vendor Breakdown
12:00-12:30									
12:30-13:00									
13:00-13:30									
13:30-14:00									
14:00-14:30									
14:30-15:00									
15:00-15:30									
15:30-16:00									
16:00-16:30									
16:30-17:00	Excursions	Excursions							

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Thursday 8/1									
7:00-7:30	Registration	Breakfast	Breakfast						
7:30-8:00									
8:00-8:30	Registration	Plenary	Plenary Session- Kei May Lau, James DeYoreo (Colorado Rockies Ballroom: Shavano Peak and Red Cloud Peak)						
8:30-9:00									
9:00-9:30									
9:30-10:00									
10:00-10:30	Registration	Break	Break						
10:30-11:00									
11:00-11:30	Registration	Session Th2	Materials for Novel Energy Technologies	Joint Session: Bulk Growth & Nonlinear Optical and Laser Host Materials I	Hetero-epitaxy of III-V on Silicon	Modeling of Crystal Growth Processes III	Characterization Techniques for Bulk and Epitaxial Crystals I	In situ Observation and Characterization I	Symposium on Epitaxy of Complex Oxides: Substrates for Complex Oxide Films
11:30-12:00									
12:00-12:30									
12:30-13:00	Registration	Lunch, IOCG General Session	Lunch						
13:00-13:30									
13:30-14:00	Registration	Session Th3	III-V Solar Cells	Joint Session: Bulk Growth & Nonlinear Optical and Laser Host Materials II	III-V Nano-Devices on Silicon	Modeling of Crystal Growth Processes IV	Characterization Techniques for Bulk and Epitaxial Crystals II	In situ Observation and Characterization II	Symposium on Epitaxy of Complex Oxides: Ruthenates
14:00-14:30									
14:30-15:00									
15:00-15:30	Registration	Break	Break						
15:30-16:00									
16:00-16:30	Registration	Session Th4	PV materials	Bulk Crystal Growth: Focus on Oxides	Selective and Patterned Epitaxial Growth	Fundamentals of Crystal Growth: Crystallization from Melt	Characterization Techniques for Bulk and Epitaxial Crystals III	In situ Observation and Characterization III	Symposium on Epitaxy of Complex Oxides: Superlattices
16:30-17:00									
17:00-17:30									
17:30-18:00									
18:00-18:30	Registration	Banquet Reception	Banquet Reception						
18:30-19:00									
19:00-19:30	Registration	Banquet	Banquet						
19:30-20:00									
20:00-20:30									
20:30-21:00									
21:00-21:30									

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Friday 8/2								
7:00-7:30	Breakfast	Breakfast						
7:30-8:00								
8:00-8:30	Registration Session F1	Fundamentals of Crystal Growth: Colloids and Crystal Growth in Solution	Bulk Crystal Growth: Other Materials	Nonlinear Optical and Laser Host Materials IV	Modeling of Crystal Growth Processes V	Silicon Carbide Materials and Devices I	Biological and Biomimetic Materials I	Symposium on Epitaxy of Complex Oxides: 5d Transition Metal Oxides
8:30-9:00								
9:00-9:30								
9:30-10:00								
10:00-10:30	Break	Break						
10:30-11:00	Session F2	HVPE Growth and Devices	In situ Observation and Characterization IV	Nonlinear Optical and Laser Host Materials V	Modeling of Crystal Growth Processes VI	Silicon Carbide Materials and Devices II	Biological and Biomimetic Materials II	Symposium on Epitaxy of Complex Oxides: Understanding Film Growth and Solid-Phase Epitaxy
11:00-11:30								
11:30-12:00								
12:00-12:30	End of conference							