

2001 MRS SPRING MEETING SESSION LOCATOR

SYMPOSIUM	LOCATION	MONDAY, APRIL 16			TUESDAY, APRIL 17		
		a.m.	p.m.	eve.	a.m.	p.m.	eve.*
A: Amorphous and Heterogeneous Silicon-Based Films—2001	Metropolitan III (Argent)	Tutorial Session** NOB HILL A/B (MARRIOTT)	Tutorial Session** NOB HILL A/B (MARRIOTT)		A1: Nucleation and Growth A2: Novel Concepts	A3: Hot Wire CVD A4: High-Rate Deposition	A5,A6,A7,A8, A9, A10: Posters
B: Molecular and Biomolecular Electronics	City (Argent)				B1:	B2:	B3: Posters
C: Electronic, Optical, and Optoelectronic Polymers and Oligomers	Nob Hill A/B (Marriott)				C1: Electronic and Optical Properties I	C2: Materials	
D: Advanced Materials and Devices for Large-Area Electronics	Franciscan I (Argent)				D1: Large-Area Electronics I—Lithography/Patterning D2: Large Area Electronics II—Novel Methods and Applications	D3: Metal-Induced Crystallization of a-Si Films D4: Controlled Lateral Solidification of Si Films	D5: Posters
E: Wide-Bandgap Electronics	Salon 1/2 (Marriott)				E1: Insertion of Wide-Bandgap Electronics into the Marketplace E2: Substrates	E3: Epitaxial Growth	
F: Transport and Microstructural Phenomena in Oxide Electronics	Salon 3/4 (Marriott)		Tutorial Session** Salon 3/4 (MARRIOTT)		F1: Transparent Conducting Oxides I	F2: Transparent Conducting Oxides II	F3: Posters
G: Luminescence and Luminescent Materials	Franciscan II (Argent)				G1: Theory, Modeling & Luminescence Phenomena	G2: Characterization	G3: Posters
H: II-VI Compound Semiconductor Photovoltaic Materials	Salon 5/6 (Marriott)		Tutorial Session** Salon 5/6 (MARRIOTT)		H1: Materials and Synthesis I	H2: Materials and Synthesis II	
I: Wafer Bonding and Thinning Techniques for Materials Integration	Golden Gate C1 (Marriott)		Tutorial Session** SALON 1/2 (MARRIOTT)		I 1: Wafer-Bonding History and Prospects I 2: Physics and Chemistry of Wafer Bonding	I 3: Ion Implantation for Layer Transfer I 4: Properties of Mismatched Interfaces	I 5: Posters
J: Si Front-End Processing	Golden Gate A2 (Marriott)				J1: Future Device Issues J2: Advances in Dopant Profiling	J3: Dopant Diffusion Issues	J4: Posters
K: Gate Stack and Silicide Issues in Si Processing II	Golden Gate C2 (Marriott)				K1: High-k Materials	K2: Processing of High-k Gate Dielectrics	K3: Posters
L: Materials, Technology, and Reliability for Advanced Interconnects and Low-k Dielectrics	Golden Gate B2 (Marriott)		Tutorial Session** SALON 10/11 (MARRIOTT)		L1: Cu/Low-k Integration and Processing L2: CVD Low-k Dielectrics	L3: Spin-Coated Low-k Dielectrics L4: Copper Thin Film Microstructure	
M: Chemical-Mechanical Polishing	Golden Gate A1 (Marriott)						
N: Microelectronics and Microsystems Packaging	Golden Gate A3 (Marriott)		Tutorial Session** SALON 10/11 (MARRIOTT)		N1: Plastic Encapsulation and Underfill	N2: Lead-Free Solder and Conductive Adhesives	N3: Posters
O: Mechanisms of Surface and Microstructure Evolution in Deposited Films and Film Structures	Salon 7 (Marriott)				O1: Epitaxial Growth I	O2/R2: Epitaxial Growth II	O3: Posters
P: Dislocations and Deformation Mechanisms in Thin Films and Small Structures	Salon 10/11 (Marriott)				P1: Dislocation and Deformation Mechanisms in Thin Metal Films and Multilayers I	P2: Discrete Dislocations—Observations and Simulations	P3: Posters
Q: Femtosecond Materials Science and Technology	Franciscan III (Argent)		Tutorial Session** SALON 14/15 (MARRIOTT)		Q1: Material Interactions, Mechanisms, and Modeling	Q2: Processing and Thin Films I	
R: Morphology and Dynamics of Crystal Surfaces in Molecular and Colloid Systems	Salon 13 (Marriott)		Tutorial Session** SALON 12/13 (MARRIOTT)		R1: Interactions and Nucleation—Fundamentals	R2/O2: Epitaxial Growth II SALON 7 (Marriott)	
S: Fundamental Studies of Corrosion and Oxidation	Salon 12 (Marriott)				S1: Defects, Dopants and Impurities Effects on Corrosion	S2: Corrosion Studies Using Novel Techniques and Systems	
T: Materials for Magnetic Devices	Golden Gate C3 (Marriott)		Tutorial Session** NOB HILL C/D (MARRIOTT)		T1: New Directions In Materials	T2: Micromagnetics to Nanomagnetics—The Next Step	T3: Posters
U: Ferromagnetic Materials	Golden Gate B3 (Marriott)				U1: Soft Magnetic Alloys and Ferrites	U2: Hard Bulk Magnets	
V: Optical Data Storage	Golden Gate B1 (Marriott)						
W: Nanotubes, Fullerenes, Nanostructured and Disordered Carbon	Metropolitan I (Argent)				W1: Fullerenes	W2: Nanotube Synthesis I	
X: Frontiers of Materials Research	Salon 7 (Marriott)					X1: OYI Talk Presentation	
Y: Synthesis, Functional Properties, and Applications of Nanostructures	Metropolitan II (Argent)				Y1: Synthesis and Self Assembly of Nanoparticles	Y2: Targeted Design and Synthesis of Nanoparticles	Y3: Posters
Z: Patterning Soft Materials	Olympic (Argent)						
AA: Advances in Materials Theory and Modeling	Nob Hill C/D (Marriott)	Tutorial Session** GOLDEN GATE B3 (MARRIOTT)	Tutorial Session** GOLDEN GATE B2 (MARRIOTT)				
BB: Material Instabilities and Patterning in Metals	Golden Gate B1 (Marriott)				BB1: Dislocation Structures and Mechanical Properties	BB2: Multiscale Models, Size Effects and Strain-Gradient Theories	BB3: Posters
CC: Nuclear Waste Containment Materials	Golden Gate C1 (Marriott)						
DD: Materials in Space—Science, Technology, and Application	CANCELLED						
EE: Applications of Synchrotron Radiation Techniques to Materials Science	Salon 14 (Marriott)		Tutorial Session** SALON 10/11 (MARRIOTT)		EE1: X-Ray Diffraction—Structures and Transformations	EE2: X-Ray Diffraction—Stress, Strain, and Texture	
FF: Materials Problem Solving with the Electron Microscope	Salon 15 (Marriott)				FF1: The Future of Electron Microscopy	FF2: Amorphous and Nanophase Materials	FF3, FF4: Posters
GG: Impacting Society through Materials Science and Engineering Education	Concordia (Argent)				GG1: Integration of Research and Education	GG2: Materials Science and Engineering Education Beyond the University	GG: UMRI Poster (Marriott)

POSTER SESSIONS:

Argent Hotel- Metropolitan Ballroom
San Francisco Marriott Hotel-Salons 1-7

** Check Tutorial Program for Details

Shaded Blocks: No Session

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WEDNESDAY, APRIL 18			THURSDAY, APRIL 19			FRIDAY, APRIL 20	
a.m.	p.m.	eve.*	a.m.	p.m.	eve.*	a.m.	p.m.
A11: Amorphous Silicon Solar Cells A12: Metastability I	A13: Hydrogen and Metastability A14: Metastability II		A15: Microcrystalline Silicon Solar Cells A16: Transport In μ C-Si	A17: Thin Film Transistors A18: Sensors	A19, A20, A21, A22, A23, A24, A25, A26: Posters	A27: Amorphous-to-Microcrystalline Transition A28: Relaxation and Diffusion	
B4:	B5:						
C3: Electronic and Optical Properties II	C4: Devices I	C5: Posters	C6: Devices II	C7: Photovoltaics and Transistors	C8: Posters	C9: Self-Assembly, Nano-structures and Printing	C10: Growth and Interfaces
D6: High-Performance Large-Area Electronics—Industrial Activities D7: Excimer Lasers Annealing of Si	D8/I 8: Commercialization of Bonded Silicon-On-Insulator (SOI) D9/I 9: Silicon-On-Insulator GOLDEN GATE C1 (Marriott)		D10: Sequential Lateral Solidification of Si Film D11: Microstructure Analysis of Crystallized Si Films	D12: High-Performance TFTs D13: Low-Temperature Deposition of SiO ₂		D14: Field Emission Displays I— Array D15: Field Emission Displays II— Materials	D16: Nanotechnology for FED D17: Materials and Devices for Flat Panel Displays
E4: Characterization of Nitrides	E5: Defects		E6: Contacts to GaN and SiC	E7: Processing GaN and SiC E8: Other Wide-Bandgap Materials/Devices	E9: Posters	E10: GaN and SiC Devices	
F4: Oxide-Based Devices I	F5: Oxide-Based Devices II F6: Ferroelectric Materials I	F7: Posters	F8: Ferroelectric Materials II	F9: Ferroelectric Materials III F10: Oxide Thin Film Growth I		F11: Oxide Thin Film Growth I	
G4: Nanocrystalline Materials	G5: Synthesis & Processing		G6: Quantum Wells & Quantum Dots	G7: Devices and Device Applications			
H3: Thin Films on Alternative Substrates	H4: Defects	H5: Posters	H6: Surfaces and Interfaces I	H7: Surfaces and Interfaces II	H8: Posters	H9: Film and Device Characteristics	
I 6: Applications & Devices I I 7: Applications & Devices II	I 8/D8: Commercialization of Bonded Silicon-On-Insulator (SOI) I 9/D9: Silicon-On-Insulator						
J5: Dopant Defect Clustering	J6: Dopant Impurity Effects		J7: Laser Annealing J8: Advances In RTA	J9: Simulation and Modeling J10: Getting of Impurities			
K4: Electrical Performance of Novel Gate Dielectrics	K5: Novel Gate Structures		K6: Novel Silicide Processes	K7: Shallow Junctions and Integration Issues in FEOL			
L5: Diffusion Barrier & Metal Thin Films—Deposition & Integration	L6: Copper Electromigration	L7, L8, L9: Posters	L10/N6: Metal/Polymer Adhesion in Chip Passivation and Packaging	L11: Low-k Dielectrics—Integration and Mechanical Properties		L12: Porous Low-k Dielectrics—Characterization	
M1: CMP—Recent Developments/Pads and Related Issues	M2: CMP Abrasives I/CMP Abrasives II		M3: Copper CMP/STI and Planarization I	M4: STI and Planarization II/ Wear Rate Models	M5: Posters	M6: Low-k and Integration Issues/Particle and Process Effects in CMP	M7: Issues in CMP Cleaning
N4: Microsystem Packaging	N5: High-Temperature, High-Power Packaging		N6/L10: Metal/Polymer Adhesion in Chip Passivation and Packaging GOLDEN GATE B2 (Marriott)				
O4: Multilayers—Stress in Thin Films	O5: Early Stages of Film Growth—Mechanical Properties		O6: Texture in Polycrystalline Films	O7: Grain Growth—Barrier Layers	O8: Posters	O9: Miscellaneous	O10: Silicides and Organic Thin Films— Pulsed Laser Deposition
P4: Dislocations in Small Structures	P5: Dislocations and Deformation in Epitaxial Layers		P6: Dislocation Fundamentals—Observations, Calculations and Simulations	P7: Dislocations and Deformation Mechanisms in Thin Metal Films and Multilayers II			
Q3: Phase Transformation and Materials Modification	Q4: Processing and Thin Films II						
R3: Thermodynamics of Surfaces	R4: Interactions and Nucleation—Complex Systems	R5: Posters	R6: Pattern Formation	R7: Structure and Morphology SALON 12/13 (Marriott)		R8: Control of the Nanoscale R9: Crystal-Solution Interfaces SALON 12/13 (Marriott)	R10: Bio-minerals and Organics SALON 12/13 (Marriott)
S3: Temperature and Environmental Effects	S4: Characterization Methods of Oxidation		S5: Initial Kinetics and Thin Oxide Film Formation on Metals				
T4/U3: Hard Ferrites/Colossal Magneto-Resistance Materials GOLDEN GATE B3 (Marriott)	T5: Devices		T6: Spins in Semiconductors				
U3/T4: Hard Ferrites/Colossal Magneto-Resistance Materials	U4: Magnetic Nanoparticles, Nanowires and Arrays		U5: Magnetic Micro- and Nanocomposites	U6/Y7: Magnetic Properties of Nanomaterials METROPOLITAN II (Argent)	V3: Posters	U7: Magnetostriction	
			V1: Phase-Change Recording—Materials and Mechanisms	V2: Magneto-Optic and Holographic Recording—Materials, Mechanisms and New Concepts			
W3: Nanotube Synthesis II	W4: Nanotube Properties and Mechanical Applications		W5: Nanotube Electronic and Storage Applications	W6: Field Emission	W7, W8:, W9, W10: Posters	W11: Diamond-Like Carbon	W12: Diamond and Diamond-Like Carbon
	X2			X3			
Y4: Nanolithography and Functional Nanomaterials	Y5: Nanotemplates and Nanostructures		Y6: Optical and Electrochemical Properties of Nanoparticles	Y7/U6: Magnetic Properties of Nanomaterials	Y8: Posters	Y9: Nanoparticles in Biological Systems	
Z1:	Z2:		Z3:	Z4:	Z5: Posters	Z6:	
AA1: Mechanical Properties, Fracture and Plasticity	AA2: Radiation-Matter Interactions AA3: Polymers and Macromolecules	AA4: Posters	AA5: Multiresolution and Multiscale Methods; Microstructural Evolution	AA6: New Methods for Materials Simulation	AA7: Posters	AA8: Multi-Timescale Methods and Applications	AA9: Large-Scale Ab-Initio Calculations
BB4: Deformation Patterning and Localization	BB5: Deformation and Patterning at Small Scale—Models And Experiments						
			CC1: Corrosion and Other Chemical Aspects	CC2: Physical and Processing Aspects			
EE3: Microtomography and Microdiffraction	EE4: X-Ray Microscopy and Fluorescence EE5: SR Methods Applied to Cementitious Materials	EE6: Posters	EE7: Magnetic Materials	EE8: X-Ray Absorption and Photoemission		EE9: X-Ray Scattering and Interfaces	
FF5: Electronic and Semiconducting Materials	FF6: Superconducting and Magnetic Material		FF7: Novel Instruments and Techniques	FF8: Ceramic Material			
GG3: Educational Workshop on Research Programs for Science Teachers	GG4: Research for Science Teachers Programs	GG: UMRI Posters (Marriott)	GG5: Innovative Curriculum Development	GG6: Novel Instructional Tools for Teaching Materials Science and Engineering			