



2018 ACS National Meeting Presenters

LSU researchers are presenting 120 talks and posters at the American Chemical Society National Meeting. For more info, visit LSU.edu and follow us on Twitter @LSU, @LSUResearch, and @LSU_Chemistry.

SUNDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	LOCATION	ROOM #	SESSION-PAPER
8:05 AM	8:30 AM	John Westcott Finley	Climate change and the food, energy, water nexus	EMCC	Rm. 217	AGFD 6
8:15 AM	9:00 AM	John Anthony Pojman	Nonlinear dynamics and polymer systems: An overview	Marriott-Canal	Studio 1	POLY 6
8:30 AM	8:50 AM	Sepideh Kavousi	Molecular dynamics simulation study of alphatocopherol interaction with lipid bilayers	EMCC	R07	COLL 17
8:30 AM	8:50 AM	Tia Vargas-Myers	Optimizing multiple energy relay GUMBOS dyes for dye-sensitized solar cells	EMCC	Rm. 237	ENFL 20
9:10 AM	9:30 AM	Jacob R Stepherson	Synthesis and structural characterization of copper (I) oxalate complexes	EMCC	Rm. 335	INOR 83
10:10 AM	10:35 AM	Cristina Sabilov	Zein nanoparticles as viable delivery systems for agrochemicals	EMCC	Rm. 217	AGFD 11
10:35 AM	10:55 AM	Swarom Kanitkar	Effect of temperature in methane activation using AlBr ₃ supported H-ZSM-5 catalysts	EMCC	Rm. 239	ENFL 34
10:45 AM	11:15 AM	C. Daniel Varnado	History of Ethyl Corporation in Baton Rouge, Louisiana and beyond	HNOR	Grand Salon D Sec 24	HIST 6
10:50 AM	11:10 AM	Daniel Norena-Caro	Genomic scale metabolic network reconstruction of Nostoc sp. PCC 7120 for the analysis of cyanophycin production	IC	Frenchman Ballroom	BIOT 32
11:10 AM	11:35 AM	Dorin Boldor	Comparison of pyrolysis products yields derived from three different parts of popular trees using a novel reactor	EMCC	Rm. 232	ENFL 16
11:35 AM	11:55 AM	Shannon Watt	Bridges to the baccalaureate: A partnership between Baton Rouge Community College and Louisiana State University to promote student success	Marriott-CC	Blaine Kem B	CHED 33

Location Key					
Ernest Morial Convention Center	EMCC	New Orleans Marriott Canal Street	Marriott-Canal	New Orleans Marriott Convention Center	Marriott-CC
Hilton New Orleans Riverside	HNOR	InterContinental New Orleans	IC	Hampton Inn & Suites Convention Center	HI&S
Loews New Orleans Hotel	LNOH	Astor Crowne Plaza New Orleans	ACP	Embassy Suites New Orleans	ES

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	LOCATION	ROOM #	SESSION-PAPER
2:00 PM	2:20 PM	Khashayar R Bajgiran	Simultaneous determination of drug efficacy in single cells using a multiplexed droplet trapping array	IC	Frenchman Ballroom	BIOT 56
2:00 PM	2:40 PM	Ye Xu	Theoretical investigation of the reactivity of oxo compounds on ceria	HI&S	Antonine	CATL 54
2:00 PM	2:20 PM	Changyoon Jeong	Impact of biochar and biochar-compost mixture application on cotton yield and nutrient runoff losses in four consecutive planting seasons	EMCC	Rm. 350	ENVR 100
2:20 PM	2:40 PM	Jong Hyun Ham	Influence of biochar addition on the soil microbial community responses in poultry manure applied soybean crop systems	EMCC	Rm. 350	ENVR 101
2:40 PM	3:00 PM	Negar Dehghani Tafti	Biochar application effects on water quality in two different textured soils	EMCC	Rm. 350	ENVR 102
3:00 PM	3:20 PM	Syam Dodla	Effect of biochar on soil water content, nutrient release, greenhouse gas and ammonia emissions, and crop growth	EMCC	Rm. 350	ENVR 103
4:00 PM	4:20 PM	Zhenhua Shen	Visualization of a cancer-associated enzyme using near-infrared (NIR) off-on and on-on fluorescent probes in vitro and vivo	IC	Frenchman Ballroom	BIOT 61
4:50 PM	5:10 PM	Benjamin J. Haywood	Investigation of carbon cycling in a subtropical estuary subjected to an early-season flood pulse, and secondary sources	EMCC	Rm. 338	GEOC 41
5:30 PM	7:30 PM	Fatemeh Khamespanah	Substituent effects on the fixation of carbon dioxide to oxalate by a binuclear copper complex	EMCC	Hall D	INOR 363
5:30 PM	7:30 PM	William Yu	Hollow dendritic Ag/Pt nanoparticles for enhanced methanol oxidation efficiency	EMCC	Hall D	INOR 371
6:00 PM	8:00 PM	Hua Wang	Silicon-containing dendritic dyes with aggregation-induced emission as fluorescent probes	EMCC	Halls B2/C	COLL 216
6:00 PM	8:00 PM	Neepa M K Kuruppu Arachchige	Electroless deposition of nickel on organosilane nanostructures prepared with particle lithography: Characterization with atomic force microscopy combined with magnetic sample modulation	EMCC	Halls B2/C	COLL 262

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SUNDAY–MONDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	LOCATION	ROOM #	SESSION-PAPER
6:00 PM	8:00 PM	William Yu	Multicolor carbon dots based on solvatochromism	EMCC	Halls B2/C	COLL 303
7:00 PM	9:00 PM	Igor Pereira da Silva	MALDI imaging and laser ablation sampling for analysis of fungicides in produce	EMCC	Hall E	ANYL 102
7:00 PM	9:00 PM	Brea Manuel	Fluorescence properties of acriflavine-based GUMBOS and nanoGUMBOS	EMCC	Hall E	ANYL 111
7:00 PM	9:00 PM	Kelin Wang	Infrared laser ablation of tissue for localized genomics analysis	EMCC	Hall E	ANYL 141
7:00 PM	9:00 PM	Thilini Oshadhi Senarath Ukwaththage	Mechanisms of δ 66RNAP: Scc4 mediated transcriptional regulation in <i>Chlamydia trachomatis</i>	EMCC	Hall E	ANYL 173
7:00 PM	9:00 PM	Kelsey Marie Lopez	Prevention and treatment of oral gonorrhea using antimicrobial GUMBOS	EMCC	Hall E	BIOL 99

MONDAY, MARCH 19

8:50 AM	9:10 AM	Daniel G Kuroda	Solvation dynamics of an ionic and a molecular probe in an ionic liquid and a deep eutectic solvent with similar structure	EMCC	Rm. 214	PHYS 113
9:30 AM	9:50 AM	Zhuo Wei	Biochar effect on the sorption-desorption and dissipation of 17 α -ethinylestradiol (ee2) in sandy and clay soils	EMCC	Rm. 350	ENVR 169
10:10 AM	10:30 AM	Nora Safabakhah	Direct measurement of deubiquitinating enzyme activity in intact cells using a protease-resistant, cell permeable peptide-based reporter	IC	Pelican I/II	BIOT 87
10:40 AM	11:00 AM	Swarom Kanitkar	Effect of Mo content in methane dehydroaromatization using sulfated zirconia supported Mo2C catalysts	HI&S	Fulton	CATL 139
1:00 PM	1:25 PM	John Anthony Pojman	Frontal polymerization for art and rapid repairs	Marriott-Canal	Studio 1	POLY 180

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1:30 PM	1:55 PM	Xinjie Tong	Molecular dynamics simulation study of interaction of lignin monomers and dimers with lipid bilayers	LNOH	St. Landry	CELL 183
2:15 PM	2:30 PM	Stephanie Vaughan	Phthalocyanine GUMBOS for discrimination of VOCs using a quartz crystal microbalance based multisensor array	EMCC	Rm. 227	ANYL 284
2:40 PM	3:00 PM	Corey Weber	The effect of conductive material to modulate front velocities in self-propagating thermal frontal polymerization systems	Marriott-Canal	Studio 1	POLY 184
3:25 PM	3:45 PM	Emily Noelle Vebrosky	Phototoxicity of dicloran to marine and freshwater organisms	EMCC	Rm. 351	ENVR 239
3:50 PM	4:10 PM	Natalia da Silva Moura	Catalytic activity of anisotropic magnetic nanoparticles activated via RF induction heating	HI&S	Fulton	CATL 187
4:05 PM	4:25 PM	Thenahandi P. D. De Silva	Enhancing photo-physical properties of propidium iodide by substitution of organic anions	EMCC	Rm. 226	ANYL 295
4:30 PM	5:00 PM	Albert Gaudé	What 18 inches could mean? Relative sea level rise and Louisiana	HNOR	Grand Salon D Sec 24	HIST 25
12:00 PM	2:00 PM	Heidi Nowakowski	Modifications to para-menthane-(3,8)-diol to increase mosquito repellency	EMCC	Halls D/E	CHED 1604
8:00 PM	10:00 PM	Huy Nguyen	Triggerable rapid contents release and fusion of redox sensitive quinone lipid-based liposomes	EMCC	Halls D/E	ANYL 191
8:00 PM	10:00 PM	Manibarathi Vaithyanathan	High-throughput droplet tracking and automated image analysis in microfluidic device	EMCC	Halls D/E	BIOT 374
8:00 PM	10:00 PM	Jin Gyun Lee	Programming the microdynamics of an active particle: From linear to helical trajectories	EMCC	Halls D/E	COLL 227
8:00 PM	10:00 PM	Neepa M K Kuruppu Arachchige	Electroless deposition of nickel on organosilane nanostructures prepared with particle lithography: Characterization with atomic force microscopy combined with magnetic sample modulation	EMCC	Halls D/E	COLL 262

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MONDAY-TUESDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	LOCATION	ROOM #	SESSION-PAPER
8:00 PM	10:00 PM	Dideolu Joshua Daniel	Distribution of products from Kraft lignin ablation with IR CO2 laser	EMCC	Halls D/E	ENFL 221
8:00 PM	10:00 PM	Baoyue Zhou	Recycling phosphate with MgO decorated magnetic biochar composite and its potential use as fertilizer	EMCC	Halls D/E	ENVR 506
8:00 PM	10:00 PM	Ghada Abdalla	Development of engineered surrogate soils	EMCC	Halls D/E	ENVR 612
8:00 PM	10:00 PM	Autumn Webb	Electrochemical analysis of supramolecular cages as nanocapsules for catalysts	EMCC	Halls D/E	INOR 755

TUESDAY, MARCH 20

8:30 AM	8:45 AM	Yuyang He	Surface catalyzed carbonate and bicarbonate reduction: Implications on serpentinization-related abiotic methane production	EMCC	Room 338	GEOC 113
8:30 AM	8:50 AM	Brian Novak	Molecular simulation of single nucleotides moving through nanoslits composed of self-assembled monolayers terminated with various chemical groups	EMCC	Room 245	COLL 460
8:30 AM	8:55 AM	Elizabeth LaBone	Modeling 3D fish movement in the Gulf of Mexico hypoxic zone	EMCC	Room 218	AGFD 153
9:00 AM	9:15 AM	Arjun Pandey	Synthesis of engineered soil surrogates	EMCC	Room 338	GEOC 115
9:00 AM	9:20 AM	David Spivak	Molecularly imprinted super-aptamer hydrogels for RNA and DNA biosensors	Marriott-Canal	Studio 10	POLY 271
10:30 AM	10:55 AM	Garrett Sternhagen	Investigating the effect of ionic group location in the self-assemblies of sequence-defined peptoid block copolymers	Marriott-Canal	Audubon	POLY 294
11:25 AM	11:45 AM	Xin Gui	Searching for new superconductors with chemistry view	EMCC	Room 211	INOR 578

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11:50 AM	12:10 PM	Naisheng Jiang	Structural evolution of thermoreversible triblock terpolypeptoid hydrogels undergo sol-gel transition	Marriott-Canal	Studio 10	POLY 277
1:00 PM	1:30 PM	John Westcott Finley	The evolution of interesterified lipids from curiosity to designer lipids for food and pharma application	EMCC	Room 217	AGFD 166
2:50 AM	3:05 PM	Mingyan Cong	Ratiometric fluorescence nanoprobe for hydroxyl radical detection	EMCC	Room 226	ANYL 355
3:00 PM	3:20 PM	David Siefker	Air-friendly synthesis of well-defined polypeptides by ring-opening polymerization of amino-acid derived N-thiocarboxyanhydrides	Marriott Canal Street	Beauregard Room	POLY 355
4:35 PM	4:55 PM	Holden Tyler Smith	Capturing plasmon/polariton dynamics of molecular dye monolayers on metallic core-shell nanoparticles using classical electrodynamics with quantum embedding	New Orleans Marriott Convention Center	Julia	COMP 163
4:50 PM	5:10 PM	Noemie Elgrishi	Evaluating the potential of nanocapsules to synthetically modulate the second coordination sphere of fuel forming catalysts	EMCC	Room 210	INOR 669
4:55 PM	5:15 PM	Paul Abanador	Wavelength and intensity dependence of recollision-enhanced multielectron effects in high-harmonic generation	Marriott-CC	Julia	COMP 164
5:30 PM	7:30 PM	William Yu	Metal-enhanced fluorescence Hg ²⁺ biosensor	EMCC	Hall D	INOR 782
5:30 PM	7:30 PM	Saeed Fosshat	Light assisted-oxygen atom transfer from group VI transition metals complexes	EMCC	Hall D	INOR 976
5:30 PM	7:30 PM	Sen Gao	Mononuclear and binuclear Ni complexes with pyridyltriazole ligands	EMCC	Hall D	INOR 979
6:00 PM	8:00 PM	Nathan Kersker	High-throughput assessment of a novel, thiol-acrylate hydrogel for tumor spheroid synthesis in a microfluidic device	EMCC	Hall E	BIOT 243
6:00 PM	8:00 PM	Grant Landwehr	Quantification of the effects of high shear stresses on single circulating tumor cells using a microfluidic device	EMCC	Hall E	BIOT 246

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TUESDAY

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6:00 PM	8:00 PM	Nora Safabakhsh	High throughput screening of deubiquitinating enzyme activity in single intact cells using a cell permeable peptide-based reporter and a microfluidics droplet trapping array	EMCC	Hall E	BIOT 272
6:00 PM	8:00 PM	Riad Elkhanoufi	Design and fabrication of a triple-input microfluidic droplet trapping array towards multiplexed cancer diagnostics	EMCC	Hall E	BIOT 408
6:00 PM	8:00 PM	Joshua Michael Campbell	Microfluidic device to characterize the effect of orthogonal chemical gradients on 3D cancer cell migration	EMCC	Hall E	BIOT 417
6:00 PM	8:00 PM	Sharif Rahman	Microfluidic co-culture of breast cancer cells and adipose stem cells	EMCC	Hall E	BIOT 419
6:00 PM	8:00 PM	Sharif Rahman	Examine how oscillating patterns of chemical gradients break the spatial range limitations of conventional chemotaxis	EMCC	Hall E	BIOT 420
6:00 PM	8:00 PM	Alexander Meyer	TDDFT modeling of Ni-doped TiO ₂ using bulk-mimicking finite clusters	EMCC	Hall E	COMP 397
6:00 PM	8:00 PM	Mohamad Barekati-Goudarzi	Pyrolysis of hydrolytic lignin dispersed in gas phase under IR laser irradiation	EMCC	Hall D	ENFL 379
6:00 PM	8:00 PM	Tianyi Yu	Synthesis and investigation of amphiphilic polypeptoid- functionalized halloysites nanotubes (HNTs) as stabilizer towards oil spill remediation	EMCC	Hall D	PMSE 321
6:00 PM	8:00 PM	Samuel Bynum	Low-temperature frontal polymerization of acrylate-based composites for use in bone repair	EMCC	Hall D	POLY 475
6:00 PM	8:00 PM	Dennel McKenzie	Time-lapse materials: Using the enzymatic hydrolysis of urea in polymerization	EMCC	Hall D	POLY 476
6:00 PM	8:00 PM	Kylee F. Fazende	Frontal polymerization of deep eutectic solvents composed of acrylic and methacrylic acids	EMCC	Hall D	POLY 479
6:00 PM	8:00 PM	Baylen Thompson	Radical-induced cationic frontal polymerization using divinyl ethers	EMCC	Hall D	POLY 480

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6:00 PM	8:00 PM	Anthony Mai	Chemical oscillating particles through encapsulation of the urea-urease reaction	EMCC	Hall D	POLY 481
6:00 PM	8:00 PM	Sierra Sterling	Zinc oxide nanoparticle composites from keratin, cellulose and chitosan: Antimicrobial properties and synthesis	EMCC	Hall D	POLY 565

WEDNESDAY, MARCH 21

8:30 AM	8:50 AM	Ying Wang	Aqueous zinc ion battery with MoS ₂ nanosheets cathode	EMCC	Rm. 237	ENFL 416
9:00 AM	9:25 AM	Fabrizio Donnarumma	Laser ablation sampling of formalin fixed paraffin embedded tissue	EMCC	Rm. 226	ANYL 392
9:15 AM	9:40 AM	Marius Hofmann	Field-cycling NMR as a tool of molecular rheology	Marriott-Canal	Studio 4	POLY 603
9:50 AM	10:10 AM	Bhuvnesh Bharti	Programming non-linear active motion of colloids by designing surface force distribution	EMCC	Rm. 242	COLL 534
10:50 AM	11:10 AM	Nimisha Bhattarai	Selective chemotherapeutic applications of rhodamine-based NanoGUMBOS	EMCC	Rm. 230	ANYL 375
11:05 AM	11:30 AM	Lavrent Khachatryan	Homogeneous gas-phase pyrolysis of hydrolytic lignin under IR CO ₂ laser irradiation	EMCC	Rm. 231	ENFL 407
11:05 AM	11:30 AM	Xia Guan	Formation of dioxins from 2-chlorophenol over fly ash: Role of Fe ₂ O ₃	EMCC	Rm. 347	ENVR 387
11:10 AM	11:30 AM	Mi Chen	Design of novel heptamethine dye-based NanoGUMBOS as potential cancer therapeutics	EMCC	Rm. 230	ANYL 376
11:25 AM	11:50 AM	Fabrizio Donnarumma	MALDI MSI directed-infrared laser microsampling for tissue proteomics	EMCC	Rm. 229	ANYL 383

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WEDNESDAY

START	END	LSU RESEARCHER	PRESENTATION OR POSTER ABSTRACT	LOCATION	ROOM #	SESSION-PAPER
2:50 PM	3:15 PM	Robin Lindsey McCarley	Switchable molecular fluorescent probes for detection and imaging of enzymes linked to disease	EMCC	Rm. 226	ANYL 422
3:00 PM	3:20 PM	Melissa Beck	Optimizing STEM skills: Understanding the allocation of attention during mental rotation	Marriott-CC	Tchoupitoulas	CHED 2114
3:25 PM	3:50 PM	Sudhir Ravula	Synthesis of new ionic liquids polymers as self-healing ionomers	Marriott-CC	Studio 3	PMSE 530
3:30 PM	3:55 PM	Revati Kumar	Development of accurate force-fields for water clusters with acidic defects	EMCC	Rm. 347	ENVR 448
4:30 PM	4:55 PM	John W Day	Energy and future environmental costs in Louisiana and Texas	EMCC	Rm. 239	ENFL 482
6:00 PM	8:00 PM	Michael Patrick Hayes	Time-lapse view of carbon fluctuations in the Mississippi River	EMCC	Hall D	GEOC 235
7:00 PM	9:00 PM	Pragathi Darapaneni	Modifying the hybridization of transition metal d orbitals with weak external fields	EMCC	Hall D	PHYS 403
7:00 PM	9:00 PM	Rami Khoury	In-situ second-harmonic generation of gold nanoparticle growth and ultrafast reflectivity on La _{0.67} Sr _{0.33} MnO ₃ /SrTiO ₃	EMCC	Hall D	PHYS 455
7:00 PM	9:00 PM	Pu Du	Development of a coarse-grained model of polypeptides for studying self-assembly in solution	EMCC	Hall D	PHYS 472
7:00 PM	9:00 PM	Asela Sampath Dikkumbura	Molecular adsorption and resonance coupling at the colloidal silver-gold core-shell nanoparticle interface	EMCC	Hall D	PHYS 479
7:00 PM	9:00 PM	Jeewan C Ranasinghe	Ultrafast transient absorption spectroscopy of porphyrin based NanoGUMBOS, silver-gold core-shell and silicon nanoparticles	EMCC	Hall D	PHYS 480
7:00 PM	9:00 PM	Yaowen Cui	Cation effect on the solvent structure of trifluoroacetamide based deep eutectic solvents	EMCC	Hall D	PHYS 481

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7:00 PM	9:00 PM	Xiaoliu Zhang	Acetate ion and its interesting solvation shell	EMCC	Hall D	PHYS 482
7:00 PM	9:00 PM	Susith Rajitha Abeythunga Galle Kankanamge	Structure and dynamics of ion pairs in glymes	EMCC	Hall D	PHYS 483
7:00 PM	9:00 PM	Ke Li	Investigation of structure and dynamics of glyme based electrolytes for sodium rechargeable batteries	EMCC	Hall D	PHYS 484
7:00 PM	9:00 PM	Visai Kavinda Subasinghe Subasinghe Don	Computational investigations of the graphene oxide - liquid interface	EMCC	Hall D	PHYS 500
7:00 PM	9:00 PM	Adam Bruner	Identifying key charge migration modes with time-dependent density functional theory	EMCC	Hall D	PHYS 528
7:00 PM	9:00 PM	Prakash Hamal	Real time study of molecular adsorption and transport at liposomes surfaces monitored by second harmonic generation	EMCC	Hall D	PHYS 549

THURSDAY, MARCH 22

8:55 AM	9:20 AM	Varada Menon Palakkal	Low resistant and high water flux membranes improve the energy efficiency of membrane capacitance deionization	ACP	Burgundy	PMSE 570
9:30 AM	9:55 AM	Le Zhang	Electrocatalytic activities of ordered nanowire catalysts generated by self-assembled block copolymer templates	EMCC	Rm. 239	ENFL 537
10:50 AM	11:10 AM	Jin Gyun Lee	Finding new eco-friendly dispersants for oil-spill remediation: Lignin based solutions for oil-herding	EMCC	R06	COLL 730
11:05 AM	11:25 AM	John Mathaga	Novel pyrimidine-pyrene semiconductors for blue organic light-emitting devices	EMCC	Rm. 231	ENFL 515
11:55 AM	12:15 PM	Farhana Hasan	Environmentally persistent free radicals in total particulate matter of tobacco smoke and e-cigarettes	EMCC	Rm. 346	ENVR 701

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1:45 PM	2:05 PM	Jianwei Wang	Local configuration of excess oxygen in UO _{2+x} from the first-principles molecular dynamics	ES	Fountainbleu Sec 4	NUCL 94
1:50 PM	2:10 PM	Tochukwu Ofoegbuna	Plasmonic excitations in strained Sr _{1-x} Nb _{1-y} O _{3+δ} nanoparticles	EMCC	Rm. 354	INOR 1374
2:20 PM	3:00 PM	Louis H. Haber	Second harmonic generation studies of nanoparticle-based drug-delivery systems	EMCC	Rm. 221	PHYS 649
3:35 PM	3:55 PM	Hamed Shamkhalichenar	In situ electrodeposition of RGO for detection of trace metals	EMCC	Rm. 228	ANYL 452
5:30 PM	5:45 PM	Kenneth Lopata	Simulating ionization-triggered attosecond charge migration with TDDFT	EMCC	Rm. 219	PHYS 646

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