

SIGMA XI STUDENT RESEARCH COMPETITION FINAL SCHEDULE

MAY 4, 2001
KINESIOLOGY, ROOM 157

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UNDERGRADUATE DIVISION

Time	Title	Student	Advisors
9:15 AM	Detecting Transits of an Extra-Solar Planet	Jose A. Ceja Physics and Astronomy	Dr. Matthew Penn
9:30	A Study of Coronal Mass Ejections and their Correlated Solar Activity Centers	Rebecca A. Linck Physics and Astronomy	Dr. Ana C. Cadavid Dr. Carol Shubin
9:45	Pixel Data and Filtering an Image	Imelda Reyes Computer Science	Dr. Gloria Melara
10:00	Mathematical Modeling of Surface Water Basins on Mars Based on Altimeter Data	Arwen Vidal Geological Sciences	Dr. Gerry Simila Dr. Bruce Banerdt
10:15	BREAK		
10:30	Cu ⁺ Lost from Oxidized CuZnSOD Contributes to the "Peroxidative" Activity of CuZnSOD	Keri Silva Chemistry - MBRS Program	Dr. Sandra Jewett
10:45	Resistance Training Increases Skeletal Muscle Glucose Uptake and Transport	Adam Krisan Kinesiology	Dr. Ben B. Yaspelkis III
11:00	A Method for Analysis of Human Cancer Cell Surfaces using Derivatized Agarose Beads	Gayani R. Weerasinghe Biology - MBRS Program	Dr. Steven B. Oppenheimer
11:15	Seawater Electrolysis: Inhibition Effects of Sulfur in the Prevention of Chlorine Gas Evolution.	Michelle J. Koukhab Chemistry	Dr. Mohammad

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1:00 PM	The Effect of Grazing by Amphipods on the Morphology of the Rhodophyte, <i>Pterocladia Capillacea</i> , and its Possible Physiological Consequences	Maiko Kasuya Biology	Dr. Robert Carpenter
1:15	The Effects of Grazing by the Sea Urchin, <i>Centrostephanus Coronatus</i> on the Benthic Algal Community	Denise Weisman Biology	Dr. Robert Carpenter
1:30	Acclimation of Zooxanthellae <i>in hospite</i> to Heat Stress	Rebecca Habeeb Biology	Dr. Peter J. Edmunds
1:45	Cooperative Hydrogen Bond Interactions Mediated Through Network Rigidity: The Alpha-Helix to Coil Transition Revisited	Alicia Heckathorne Physics	Dr. Donald Jacobs
2:00	Differential Expression of Akinete Specific Genes in <i>Nostoc Punctiforme</i>	Kamile Yuksek Biology	Dr. Michael Summers
2:15	Information Theoretic Outlook to Reverse Engineering of Genetic Networks	Abhijit J. Chaudhari Elect/Comp Eng	Dr. Deborah van Alphen
2:30	BREAK		
2:45	Using Differential Display to Identify Genes Under Transcriptional Control of the cAMP Receptor Protein	Kim Ashe Biology	Dr. Michael Summers
3:00	Depositional Environments of the Oligocene Alegria Formation, Santa Barbara County	Martha P. Sgriccia Geology	Dr. A. E. Fritsche
3:15	Associating Spinal Fluid Compounds with Brain Disease from Computer Analysis of Electrophoresis Gels	John Handy Computer Science	Dr. Carol Shubin
3:30	Overview of Late Cretaceous Marine Gastropods from the Chatsworth Formation, Simi Hills, Southern California	Mary Stecheson Geological Sciences	Dr. Richard Squires
3:45	Leptin Improves Insulin-Stimulated but not Basal Skeletal Muscle Glucose Transport	Mona Singh Kinesiology - MBRS Program	Dr. Ben B. Yaspelkis III
4:00	Polypyridyl Ruthenium(II) Catalysts for Transfer Hydrogenation of Ketones	Proma P. Phengsy Chemistry	Dr. Eric Kelson
4:15	Modeling the Effect of an Earthquake with a Blind Thrust Fault	Mario Martinez Math	Dr. Werner Horn Dr. Carol Shubin