

Advanced Chemistry, Nanotechnology, Research Management and Innovations Schedule
9 am-12 pm and 2-5 pm

WEEK 1- General Lectures/Intro to ASU			
Day	Location	Topic	Instructor
Saturday, December 4, pm		Introduction to the course and ASU Tempe campus tour	Anatoli Korkin
Monday, December 6; am	PSC135	Innovations in Chemistry Instruction at ASU	Ian Gould and other instructors
Monday, December 6; 1:30PM- 4:30PM	Sheraton	ASU New American University Model/Research Development Seminar	Kathryn Mohrman
Monday, December 6; 5:30-7:30 pm	University Club	Welcome Reception	
Technical Workshops – Group 1: Nanomaterials design and characterization			
Day	Location	Topic	Instructor
Tuesday, December 7; 9AM	ISTB-1	NMR Characterization of Nanostructures and Their Functions: Ligand Capped Nanoparticles, Nanostructured Biopolymers and MRI Contrast Nanomaterials	Jeff Yarger (Chemistry and Biochemistry)
Tuesday, December 7; 2PM	BDI	Single Molecule Biophysics	Stuart Lindsay (BDI, Physics, Chemistry and Biochemistry)
Wednesday, December 8; 9AM	PSC	Nanostructures on Surfaces and Surface Microscopy: PEEM, PFM, SKFM	Robert Nemanich (Physics)
Wednesday, December 8; 2PM	BDI	Chemically Programmed Design and Assembly of Biologically Inspired Nanomaterials	Hao Yan (BDI, Chemistry and Biochemistry)
Thursday, December 9; 9AM	PSC	Theoretical Chemistry and Physics in Nanoscience	Dmitry Matyushov and Vladimiro Mujica (Chemistry and Biochemistry, and Physics)
Thursday, December 9; 2PM	BDI	Sensors for Chemical and Biological Targets and Processes	Nongjian Tao and Shaopeng Wang (BDI, EEE)
Friday, December 10; 9AM	PSC B234	Nanocharacterization by Electron Microscopy	David J. Smith (Physics)
Friday, December 10; 2PM	PSC	Production and Application of Nanoporous Materials	Don Seo (Chemistry and Biochemistry)
Technical Workshops – Group 2: Alternative and renewable energy			
Day	Location	Topic	Instructor
Tuesday, December 7; 9AM		Flexible Materials for Electronics, Displays and Energy Conversion (possibly hands on labs/tour)	Greg Raupp or Jian Li or Nikolai Faleev
Tuesday, December 7; 2PM		Solar Energy Materials I & II	Christiana Honsberg (Confirmed)
Wednesday, December 8; 9AM		Bioenergy - TBD	Bruce Rittman (Confirmed)
Wednesday, December 8; 2PM		Biofuel from Algae	Milton Sommerfeld (Confirmed)
Thursday, December 9; 9AM		Electrochemical systems and electrolytes for batteries	Austin Angel (Confirmed)
Thursday, December 9; 2PM		Battery electrodes -?	A.M. Kannan (Confirmed)

Friday, December 10; 9AM		Bioinspired nanomachines for solar fuels.	Anne Katerine Jones
Friday, December 10; 2PM		New ways of using old (biological) methods for making solar fuels.	Kevin Redding (Confirmed)
Technical Workshops – Group 3: Biochemistry and biotechnology			
Day	Location	Topic	Instructor
Tuesday, December 7; 9AM		Overview of Biotechnology and Biomedicine at ASU Themed talk on Chemical and Synthetic Biology	John Chaput
Tuesday, December 7; 2PM		TBD	Larisa Dedkova
Wednesday, December 8; 9AM		Protein Microarrays & Biomedical Applications	Ji Qiu & Mitch Magee
Wednesday, December 8; 2PM		Themed topic on the effects of spaceflight on bacterial gene expression	Cheryl Nickerson
Thursday, December 9; 9AM		Themed topic on Vaccinia-based vaccine vectors	Bertram Jacobs
Thursday, December 9; 2PM		Themed talk on Salmonella	Roy Curtiss
Friday, December 10; 9AM		Themed talk on Plant-based Vaccines	Hugh Mason
Friday, December 10; 2PM		Themed talk on Peptide Microarrays & Disease Diagnosis	Chris Diehnelt
WEEK 2- Lab Tours/Hands-On Experience			
Day	Location	Topic	Instructor
Monday, December 13; 9-5 pm	Skysong	Technology Entrepreneurship at ASU (Workshop, Tours, Faculty Business Plan Reviews, Student Projects, Licensing and Patents, other)	Dan O'Neil (Confirmed)
Tuesday, December 14; 9AM	ASU Classroom	Overview of Research Enterprise and Review of ASU successful Proposals and Faculty Support Process	Stacy Esposito (Confirmed)
Tuesday, December 14; 2PM	ASU Classroom	Faculty Instruction Seminar—Active Learning Methods for Technical Courses.	Al Filardo (Confirmed)
Wednesday, December 15; 9AM	ASU Classroom	Faculty Instruction Seminar—Interactive Labs	Al Filardo (Confirmed)
Wednesday, December 15; 2PM	Open	ASU Light Works	Dr. Gary Dirks, Director
Thursday, December 16; 9AM	ASU Tech Park	Tour of Macro Works and Flexible Display Center http://flexdisplay.asu.edu/	
Thursday, December 16; 2PM	ASU Poly	Laboratory for Algae Research and Biotechnology http://larb.asu.edu/	
Friday, December 17; 9AM Afternoon Open	ASU Classroom	ASU Senior Design Course Structure and Global Design Project Models/Multidisciplinary	Al Filardo (Confirmed)

WEEK 3- Lab Tours/Hands-On Experience

Day	Location	Topic	Instructor
Monday, December 20; 9AM	ASU Classroom	Industry Faculty Collaborations in Research or Innovation Space	Bill Denzer, TASER Prasad Borakar
Monday, December 20; 2PM	ASU Classroom	Industry Faculty Collaborations in Research/Teaching	Alan Fisher, Intel Corporation
Tuesday, December 21, 9AM	ASU Classroom	How to develop an Industry-Academic Research Consortia/Sustainability Consortia Project Review	Dr. Kevin Dooley
Tuesday, 2PM	Open	ASU Library Research	Open
Wednesday, December 22, 9AM	Artisan Court	Review of Distance Education and Digital Media in Science and Engineering Programs	Mr. Octavio Heredia
Wednesday, December 23, 11:30AM	Sheraton	Open-Closing Lunch and Awarding of Certificates	