

# 2002 Biodiversity and Biocomplexity Institute Schedule

Friday, August 2, 2002

3:00 P.M.	Orientation and Reception, American Museum of Natural History , Linder Theater, First Floor Please enter Museum on West 77 Street bet. Columbus and Central Pk. West)
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## *Week One: Mostly at Pace University*

Monday, August 5: all activities at One Pace Plaza

8:30 A.M.	Coffee, Bagels, Muffins (Room: Lecture Hall WEST, 2nd floor One Pace Plaza)
9:00 A.M.	Lecture: "Biodiversity and Microbial Ecology" (M. Levandowsky) Room W614 Lecture: "Lab Techniques" (Hoegler and Cox) <ul style="list-style-type: none"> <li>• Defining and measuring biodiversity</li> <li>• Biodiversity in microbes and macrobes</li> <li>• Teaching biodiversity</li> </ul>
10:00 A.M.	Laboratory Techniques and Methodology for Microbiology Session one, (Hoegler) Room W309 <ul style="list-style-type: none"> <li>• Basic laboratory procedure and safety</li> <li>• Using the compound microscope</li> <li>• Examination of natural samples (pond water)</li> <li>• Microbiological staining</li> </ul>
12:00 P.M.	Lunch Faculty Dining Room
1:00 P.M.	Facilitated Discussion (Asperas, Melkonian)
1:30 P.M.	Laboratory Techniques and Methodology for Microbiology , Session Two (Cox) Room W309 Culture and isolation techniques Identification of microbes based on growth, metabolism and staining properties
4:30-5:00 P.M.	Wrap up

## Tuesday, August 6

8:00A.M.- 6:00 P.M.	Field Trip: Constitution Marsh: Bring a lunch, sample equipment, test equipment (T. Gorrell, M. Levandowsky) Meet at Gold Street loading dock
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## Wednesday, August 7: all activities at One Pace Plaza

8:30 A.M.	Faculty dining room, Coffee
9:00 A.M.	Laboratory processing of Samples (Levandowsky, T. Gorrell) Room W305
12:00 P.M.	Lunch: Faculty dining room
1:00 P.M.	Facilitated Discussion (Asperas, Melkonian)
1:30 P.M.	Computer Workshop: Introduction to the Web, Power Point, Front Page (T. Gorrell, K. Macmillan and J. Popow) Electronic Classroom in library
4:00-5:00 P.M.	Wrap up

## Thursday, August 8

8:30 A.M.	Faculty Dining Room Coffee
9:00 A.M.	Laboratory: Study of Isolates inoculated on Monday (D. Cox, C. Hoegler) Room W309
12:00 P.M.	Lunch: Faculty dining room
1:00 P.M.	Facilitated Discussion (Asperas, Melkonian)
1:30 P.M.	Finding Medicine in the Rain Forest, (Bacchi) 41 Park Row, 16th floor Conference Room
2:15 P.M.	Opportunistic Infections (N. Yarlett) 41 Park Row, 16th floor Conference Room
3:00 P.M.	Tour of Haskins Labs, 41 Park Row, 6th floor,
4:15 P.M.	Discussions: The Living Environment curriculum (Asperas, Melkonian) 41 Park Row, 16th floor
4:30-5:00 P.M.	Wrap up

## Friday August 9

8:30 A.M.	Faculty Dining Room, Coffee
9:00 A.M.	Laboratory: Preliminary examinations of ecological samples. Discussion of all ecological laboratory exercises. Room W305

12:00 P.M.	Lunch Faculty dining room
1:00 P.M.	Facilitated discussion (Asperas, Melkonian)
1:30 P.M.	Discussion and evaluation of experiences during the first week. (Asperas, Melkonian)
3:00 P.M.	<i>(American Museum of Natural History)</i> Lecture: From Nature to Culture: Ethical Issues in Biodiversity (R.W. Chapman) American Museum of Natural History, Calder Lab on 2nd floor
4:30-5:00 P.M.	Brief orientation to Week Two (Aquino, Macdonald, Schiller & teacher facilitators)

## ***Week Two: Mostly at The American Museum of Natural History***

**Monday, August 12: Homeroom is Calder Lab on the 2nd floor near the Peoples Center**

9:00 A.M.	Welcome and transition activities: How does week one connects to week two? From immersion in molecular research to applications of Museum investigations for studying the Living Environment. (Macdonald & Aquino)
10:30 A.M.	Lecture: "How scientists study, interpret, and exhibit Biodiversity in a Museum setting" (Aquino and Schiller)  Guided observations in exhibits that support key concepts in the "Living Environment" Curriculum Frameworks for NY State. ( Aquino, Schiller, Asperas, Melkonian)
12 Noon	Luncheon Discussion: Expectations for the design of a Museum Investigation Guide to study Biodiversity topics. (Macdonald, Asperas, Melkonian).
1:30	Methodologies and techniques for Museum investigations: prediction, observation, questions, recording, and illustration. Studying Central Park Biodiversity using collections and short trips. (Aquino & Schiller)
	<b>WORK SESSIONS</b>
3:00	Independent MUSEUM research and reading to identify topic of study for the Museum investigation guide project.
	Consultation time with teacher facilitators
4:30 -5:00	Reporting on initial topics of investigation, Overnight assignment: Young Naturalist Awards and one question from Biodiversity book.

**Tuesday, August 13**

9:00 A.M.	A current conservation study with young adults: Why do we need oysters in the Hudson River? A field trip. (Marchini and Aquino)
11: A.M.	Biodiversity & Conservation Issues in the Urban Setting (Schiller)
12 Noon	Independent lunch in Food Court (Lower level)
1:00 P.M.	The Cladistic Method: How do we name and rank groups in a classification system? Sources of data and nomenclature in the study of fishes.(Aquino)
3:00 P.M.	Observing scientists at work and demonstrating the inquiry process to students. Use of films to illustrate scientific research, questions, methods, and tools: "The Lost Worlds" (Aquino, Asperas, Melkonian)
4:00	Independent time to work on Museum Investigation Guide Project.
	Develop Part 1 of the Museum Investigation Outline. What are we studying, why are we studying it, and who are my students?

### Wednesday, August 14

9:00 A.M.	Guided Study in the Halls of Evolution: Extinct Mammals and Dinosaurs (Schiller)
10:30 A.M.	Making connections between life and earth sciences to study Biodiversity and Extinction topics. IMAX Film "Bears" and follow up investigation in the Halls of Extinct Mammals (4 <sup>th</sup> floor) and North American Mammals (1 <sup>st</sup> floor). (Schiller)
12:30 P.M.	Independent lunch in Food Court
1:30 P.M.	Evolution studies: From the Hall of the Universe to the Hall of Dinosaurs. (Aquino)
3:00 P.M.	Work Session: Complete Parts 2, 3, and 4 of the Field Investigation Guide. 2) How will I prepare students (pre-visit sample lesson); 3) What do I expect them to find out during the Museum investigation; and 4) How will I they find it out - and how will I assess what they learned on the trip.
	Finish all aspects of the Museum Investigation Guide and be ready to create a display poster on Thursday.

### Thursday, August 15

9:00 A.M.	Work session to complete the investigation display posters.
12:30 A.M.	Lunch: Guest speaker
1:30 P.M.	Exhibits and presentations
4:00-5:00 P.M.	Closing Tea and Evaluations

### Friday August 16 (*One Pace Plaza*)

8:30-9:00 A.M.	Faculty Dining Room, Coffee
9:00-12:00 P.M.	Evaluation and discussion of ecological exercises (Room W308). Examine and summarize results from ecological sample exercises. Levandowsky and Gorrell
12:30-1:30 P.M.	Lunch Faculty dining room
1:30P.M.	Facilitated Discussion (Asperas, Melkonian)
2:00-4:00 P.M.	Completion of web pages (K. Macmillan and J. Popow)