

**Pan-American Advanced Studies Institute (PASI): Cyberinfrastructure for International, Collaborative, Biodiversity and Ecological Informatics**

**Schedule of Activities, May 31 - June 13, 2008**

**Note: Times and Events are likely to change a little during daily schedules at La Selva**

Date	Time	Activity	Presenter/Organizer	Comments
Overnight Location				
<b>Saturday, May 31, 2008</b> San Jose, Hotel Irazu- Best Western		International Arrivals to Juan Santamaria Airport (SJO)		Best Western Irazu, Km 3 Autopista General Canas San Jose, 1000, CR. Tel 506 2 290 9300
		Take a taxi to hotel 18 Km from airport		Pay in CR Colones or US Dollars
	6:00 PM	Informal Group Dinner meet in Hotel Irazu Reception/Lobby at 6:00 PM	All	Walk to Restaurante, La Fuente de Mariscos, 2nd floor, Centro Commercial San Jose 2000, Tel 2231 0631 or 2296 1256 (Costa Rican participants invited to join us for dinner!)
<b>Sunday, June 01, 2008</b> La Selva Biological Station	7:00 AM	Breakfast and Hotel Check-out		
	8:00 AM	Load Bus at Hotel Irazu with all suitcases		
	8:30 AM	Arrive and settle at INBioparque		
	9:00 AM	<b>Session 0</b> Welcome and Presentation on Biodiversity Conservation in Costa Rica	Don Rodrigo G3mez Lobo, President INBio	
	10:00 AM	INBio biodiversity research tour	Erick Mata, INBio	
	11:00 AM	Bus to La Selva		
	12:00 PM	"		
	1:00 PM	Lunch at Rancho Robertos		
	2:00 PM	Back on the bus to La Selva		
	2:30 PM	Arrive La Selva, De-bus, register at reception, pack-in		
	3:30 PM	<b>Session 1</b> Guided Walks Into to La Selva	La Selva Guides	
	4:30 PM	Free time		
	5:00 PM	Reception Station Director's Patio	Deedra McClearn	Welcome and hospitality from the La Selva Director
	6:00 PM	Dinner in the Cafeteria/Comedor		
	7:00 PM	<b>Session 2 (Overview)</b> The US NSF PASI Program	Jessica Robin, U.S. NSF	All La Selva PASI sessions are in the conference room in the classroom building, excepting field exercises.
8:00 PM	PASI: Introductions, science themes, curriculum and logistics	Beach, Ibarra, Organizing Committee.		
<b>Monday, June 02, 2008</b> La Selva Biological Station	6:00 AM	Breakfast (served 6 AM - 7:30 AM daily)		
	6:30 AM	Optional Guided Tour of Forest		
	8:00 AM	<b>Session 3 (Overview)</b> Introduction to Biodiversity Informatics	Mata	
	9:00 AM	Presentation: Conceptual Landscape of Technology Enabled Science	Deanna Pennington	
	10:00 AM	Coffee Break		
	10:30 AM	Hands-on: CMAP software	Pennington/All	Conceptualizing Biodiv and Eco Informatics
	12:00 PM	Lunch (served 11:30 AM - 1 PM daily)		
	1:00 PM	<b>Session 4 (Tools and Overview)</b> CMap Hands-On continued		(This serves to introduce everyone's field of interest and to identify common ground)
	2:00 PM	Analysis of results of Biodiv-Eco CMaps	Pennington/All	
	2:30 PM	Coffee Break		
	3:00 PM	Discussion with Individual Research Interests	All	
	4:00 PM	Discussion with Individual Research Interests	All	Journal at the end of the day
	5:00 PM	Free time		
6:00 PM	Dinner (served 6 PM - 7 PM daily)			
7:00 PM	<b>Session 5</b> Presentation: La Selva: the old-growth tropical rain forest landscape	David Clark, Resident Researcher		
8:30 PM	Socialize/Free time			
<b>Tuesday, June 03, 2008</b> La Selva Biological Station	6:00 AM	Breakfast		
	6:30 AM	Optional Guided Tour of Forest		

8:00 AM	<b>Session 6 (Tools):</b> Specimen, Climate, Geospatial Data, Data Collection/Management Concepts, Issues, Standards	Bryan Heidorn and Bob Morris	Ecological Metadata Language, Darwin Core, SDD, EML, GBIF/TDWG task groups, observations and multimedia
9:00 AM	"	"	"
10:00 AM	Coffee Break		
10:30 AM	Geospatial Data Overview	Aimee Stewart	OGC standards, Map Server, WMS, WFS
11:00 AM	Hands-On: QGIS	Stewart and Morris	
12:00 PM	Lunch		
1:00 PM	<b>Session 7 (Tools and Integration) Hands-On</b>	Stewart	specimen data, climate data, geospatial data
2:00 PM	Lifemapper Introduction		OGC
2:30 PM	Coffee Break		
3:00 PM	Web Services using Lifemapper as an example	Stewart	Intro to web services
4:00 PM	Hands-on: Developing a web services client in Python	"	
5:00 PM	Free Time		
6:00 PM	Dinner		
7:00 PM	<b>Session 8 (Data)</b> Geocoding: Birds of a Feather Session	Morris	Geospatial data tools and techniques, TBD.
8:00 PM			Bring your GPS, camera, cables to connect to a computer

**Wednesday, June 04, 2008**

La Selva Biological Station

6:00 AM	Breakfast		
6:30 AM	Optional Guided Tour of Forest		
8:00 AM	<b>Session 9 (Tools and Integration)</b> Ecological Sensor Networks	Eric Graham, Yeung Lam Fabio Silva	Science Questions, Technologies Field Exercises Overview & Hardware Setup
9:00 AM	"		
10:00 AM	Coffee Break		
10:30 AM	ESN's continued	Graham/Lam/Silva	Field Hardware Setup & Deployment
11:00 AM	Middleware for Sensor Network Communities	Paul Hubbard UCSD	
12:00 PM	Lunch		
1:00 PM	<b>Session 10 (Tools)</b> ESN's continued	Graham/Lam/Silva	Field Hardware & Data Collection
2:00 PM	"	Graham	Data analysis for Example Science Questions
2:30 PM	Coffee Break		
3:00 PM	"	Graham	Data Analysis, continued
4:00 PM	"	Lam/Silva	In-depth hardware setup
5:00 PM	Free time		
6:00 PM	Dinner		
7:00 PM	<b>Session 11 (Tools)</b> Hands-on: LabView	Lam/Silva	
8:00 PM	"	"	

**Thursday, June 05, 2008**

La Selva Biological Station

6:00 AM	Breakfast		
6:30 AM	Optional Guided Tour of Forest		
8:00 AM	<b>Session 12 (Community): Grid Computing</b>	Alina Bejan Open Science Grid	Grid Computing Overview, Demos
10:00 AM	"	"	Hands-On
10:30 AM	Coffee Break		
11:00 AM	"		
12:00 PM	Lunch		
1:00 PM	<b>Session 13 (Community): Grid Computing</b>	"	"
2:30 PM	Coffee Break		
3:00 PM	Grid Computing Continued		
4:00 PM	Presentation: ARCTA Advanced Research and Technology Collaboration for the Americas	Jose Castro, Computing Research Center, ITCR	
5:00 PM	Free time		
6:00 PM	Dinner		
7:00 PM	<b>Session 14 TBD = To Be Determined</b>		
8:00 PM			

**Friday, June 06, 2008**

La Selva Biological Station

6:00 AM	Breakfast		
8:00 AM	<b>Session 15 (Integration): Ecological Niche Modeling, Presentation: Science and Concepts</b>	Enrique Martinez	
9:00 AM	"	"	

10:00 AM	Hands-on Niche Modeling	"
10:30 AM	Coffee Break	
11:00 AM	Lifemapper Projections	Stewart and Pennington
12:00 PM	Lunch	
1:00 PM	<b>Session 16 (Integration): Workflow Environments</b>	Pennington
2:00 PM	Demonstration: Kepler for Niche Modeling	Pennington and Thau
2:30 PM	Coffee Break	
3:00 PM	Hands on: Paper prototyping	Pennington
4:00 PM	"	
5:00 PM	Free time	
6:00 PM	Dinner	
7:00 PM	<b>Session 17 TBD</b>	
8:00 PM		

<b>Saturday, June 07, 2008</b>	6:00 AM	Breakfast		
Hotel Boyeros, Liberia	8:00 AM	<b>Session 18 (Integration): Ontologies</b>	Dave Thau	
	9:00 AM	Hands-on: Protégé	Thau and Morris	Species profile, SDD, other TDWG ontologies
	10:00 AM	Open Biomedical Ontology Factory (OBO)	Morris	Taxon ontologies in Kepler
	10:30 AM	Coffee Break		
	11:00 AM	Demonstration: Morphster/Morphbank/Morphobank	Morris/Sequeda	
	12:00 PM	Lunch		
	1:00 PM	Pack and load bus for travel to Guanacaste		
	2:00 PM	Bus to Hotel Boyeros		Hotel Boyeros, Liberia, Tel: 506 2666-0722
	3:00 PM	"		hboyeros@racsa.co.cr
	4:00 PM	"		<a href="http://www.hotelboyeros.com">http://www.hotelboyeros.com</a>
	5:00 PM	"		
	6:00 PM	"		
	7:00 PM	Arrive Hotel Boyeros, Check-in, Dinner in Liberia		
	8:00 PM	<b>Session 19 TBD</b>		

<b>Sunday, June 08, 2008</b>	7:00 AM	Breakfast		
Hotel Boyeros, Liberia	8:00 AM	Bus to ACG		
	9:00 AM	<b>Session 20 (Data)</b> Area de Conservation Guanacaste (ACG), big picture of biodiversity	Dan Janzen/Winnie Hallwachs and 29 collaborators	
	10:00 AM	Biodiversity inventory: Up-close and personal, species, data and everything else	"	
	11:00 AM	"	"	
	12:00 PM	Lunch at ACG, Park Headquarters	"	
	1:00 PM	<b>Session 21 (Community Computing)</b> Sliding into DNA barcoding	"	
	2:30 PM	Coffee Break	"	
	3:00 PM	Taking the barcode revolution to an entirely new fauna	"	
	4:00 PM	"	"	
	5:00 PM	Free time	"	
	6:00 PM	Bus back to Hotel Boyeros		
	7:00 PM	Dinner in Liberia		Recommended: La Toscana, Paseo Real la Toscana is in centro commercial across from BK

<b>Monday, June 09, 2008</b>	7:00 AM	Breakfast, Check-out of Hotel		
La Selva Biological Station	8:00 AM	Bus to La Selva		Some instructors depart Liberia Airport
	9:00 AM	"		
	10:00 AM	"		
	11:00 AM	Arrive La Selva		
	12:00 PM	Lunch		
	1:00 PM	<b>Session 22 (Tools) Working with Core Applications</b>	Morris	
	2:00 PM	Hands-on: Install and configure, PHP, MySQL	Morris/group	
	2:30 PM	Coffee Break		
	3:00 PM	Hands-on: Install Apache and Menalto gallery	Morris/group	
	4:00 PM	"	"	
	5:00 PM	Free time		
	6:00 PM	Dinner		
	7:00 PM	<b>Session 23 (Tools)</b> Hands-on: TAPIR install	Manuel Vargas	

	8:00 PM	"	"	
<b>Tuesday, June 10, 2008</b>	6:00 AM	Breakfast		
La Selva Biological Station	6:30 AM	Optional Guided Tour of Forest		
		<b>Session 24 (Community Computing): Data</b>		Impact of community data centers on science workflows
	8:00 AM	CRIA Brazil Community Computing	Dora Canhos	
	9:00 AM	"	"	
	10:00 AM	TDWG Community: Standards and tools	Morris and Heidorn	
	10:30 AM	Coffee Break		
	11:00 AM	GBIF Community	Mata	
	12:00 PM	Lunch		
	1:00 PM	<b>Session 25 (Community Computing)</b> Encyclopedia of Life	David Shorthouse	EOL science workflows, architecture, tools, etc.
	2:00 PM	"	"	
	2:30 PM	Coffee Break		
	3:00 PM	Google Community of Applications and Services	Rebecca Shapely	
	4:00 PM	Specify Software Project Network Architecture	Beach	
	5:00 PM	Free time		
	6:00 PM	Dinner		
	7:00 PM	<b>Session 26 (Community Computing)</b> Content Management Systems - Drupal as an example	Shorthouse	
	8:00 PM	"		
<b>Wednesday, June 11, 2008</b>	6:00 AM	Breakfast		
La Selva Biological Station	6:30 AM	Optional Guided Tour of Forest		
		<b>Session 27 (Community Computing):</b>		
	8:00 AM	Licensing and Intellectual Property Rights	Morris	Open source licensing and creative commons licensing
	9:00 AM			
	10:00 AM	Software Design and Usability	Shapely	
	10:30 AM	Coffee Break		
	11:00 AM	Continuation from morning		various
	12:00 PM	Lunch		
	1:00 PM	<b>Session 28 (Data and Tools)</b> Character-based Identification Concepts	Morris/Heidorn	Concepts, algorithms, technologies, tools
	2:00 PM	Hands-on: Character-based identification	Orlando Vargas/Enrique Castro	using online multiple-access keys for diagnostic IDs
	2:30 PM	Coffee Break		
	3:00 PM	Continuation character data concepts and applications	Morris/Heidorn	
	4:00 PM	"		
	5:00 PM	Free time		
	6:00 PM	Dinner		
	7:00 PM	<b>Session 29 (Tools)</b> Spatial Analysis in Macroecology, SAM	Thiago Rangel	
	8:00 PM			
<b>Thursday, June 12, 2008</b>	6:00 AM	Breakfast		
	8:00 AM	<b>Session 30 (Various)</b> Course Wrap-up, Missed topics, Gaps	All	
Hotel Irazu	9:00 AM	"		
Best Western	10:00 AM	"		
	11:00 AM	Free time		
	12:00 PM	Lunch		
	1:00 PM	Pack-out of rooms		
	2:00 PM	Depart by bus for San Jose		
	3:00 PM	Bus		
	4:00 PM	Arrive San Jose Hotel		
	5:00 PM	Free time		
	6:00 PM	Free time		
	7:00 PM	Eat Biodiversity PASI Banquet		<a href="http://www.monastere-restaurant.com/">http://www.monastere-restaurant.com/</a>
	8:00 PM	Bus to Le Monastere, Escazu		Santa Ana Road from Escazu, left at Multicentro Paco follow the green crosses.
<b>Friday, June 13, 2008</b>	AM	International Departures SJO Airport		
		No lodging		