

2010

NSF BIO REU Workshop

Holiday Inn Rosslyn at Key Bridge
Arlington, Virginia
March 18 – 20, 2010

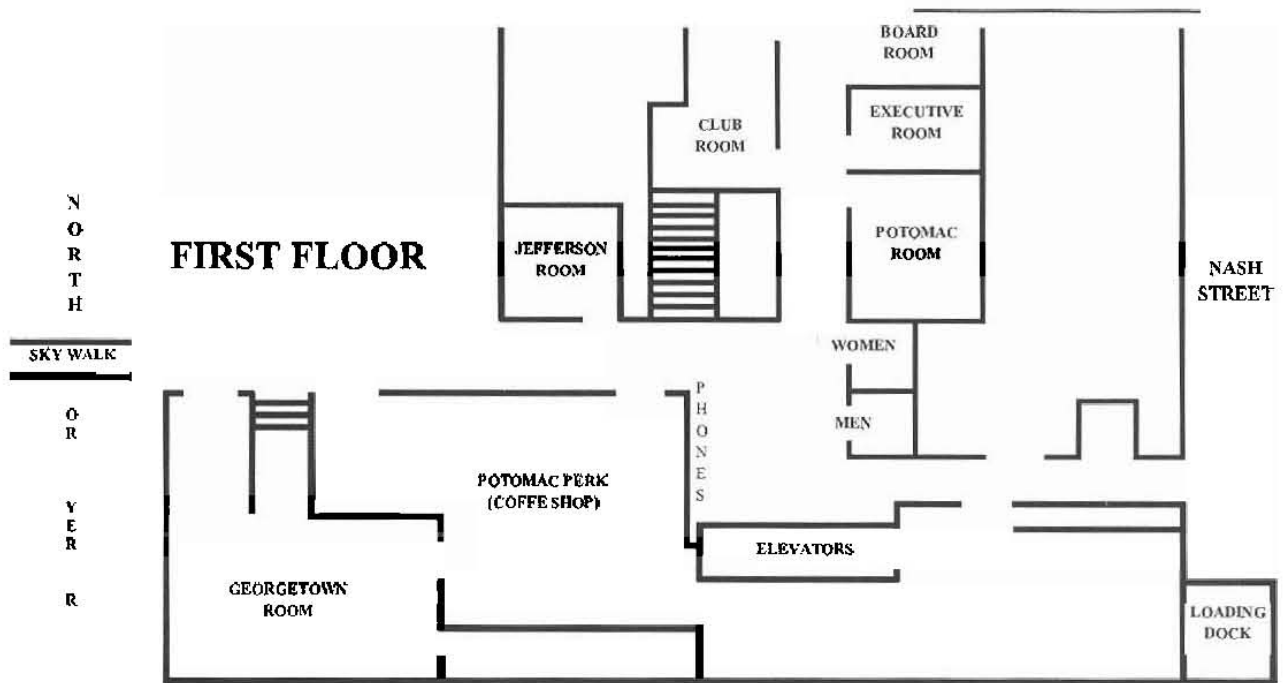
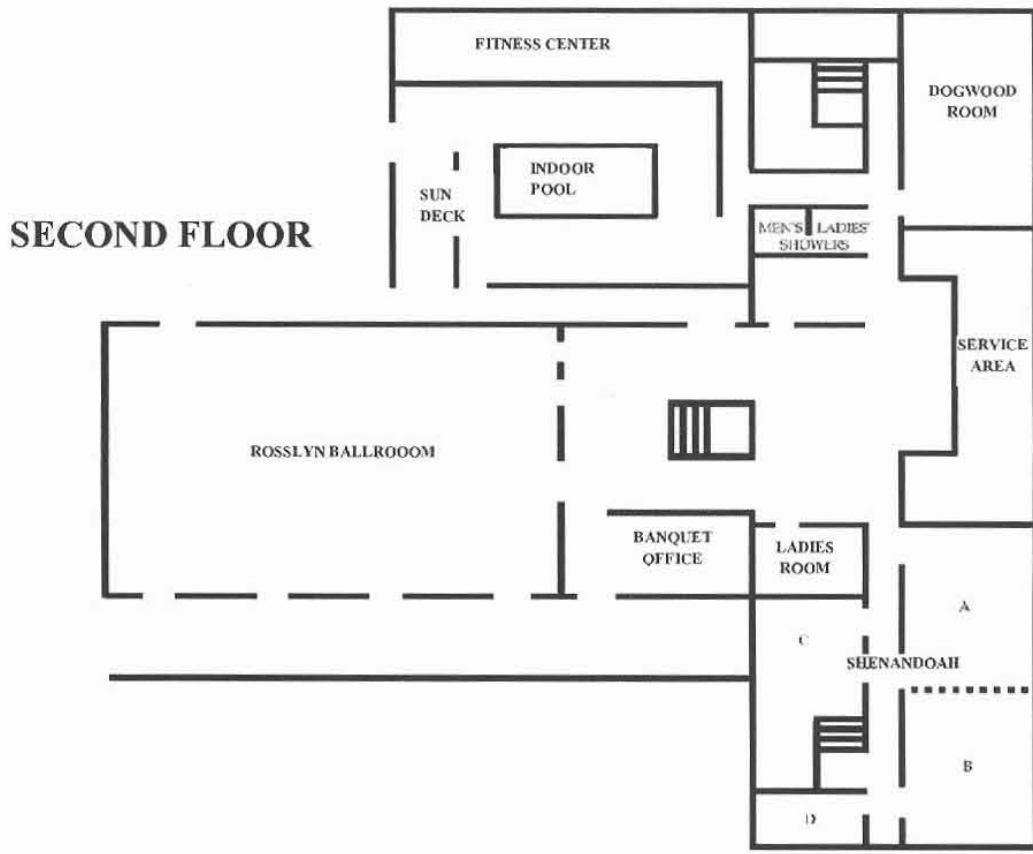
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National Science Foundation
WHERE DISCOVERIES BEGIN

Holiday Inn Rosslyn – Floor Plan



Agenda

Thursday, March 18

2:00 PM - 6:00 PM	REGISTRATION AND BADGE PICKUP (Promenade)
3:30 PM - 4:00 PM	POSTER SET UP (Shenandoah)
4:00 PM - 5:00 PM	POSTER SESSION 1 (Posters 1-20)
5:10 PM - 6:10 PM	POSTER SESSION 2 (Posters 21-40)
6:10 PM - 6:30 PM	POSTER TAKE DOWN
7:00 PM - 8:30 PM	DINNER (Vantage Point Rooftop Restaurant) Gabriela C. Weaver, Ph.D., Purdue University <i>"The role of undergraduate research in undergraduate science education"</i>

Friday, March 19

7:30 AM - 8:30 AM	CONTINENTAL BREAKFAST (Rosslyn Ballroom)
8:30 AM - 9:00 AM	WELCOME AND MEETING GOALS Robyn Hannigan (Leadership Committee Chair) Sally O'Connor, NSF BIO/DBI Program Director Peter Arzberger, NSF BIO/DBI Division Director
9:00 AM - 9:30 AM	SUMMARY OF PRE-MEETING SURVEY
9:30 AM - 10:45 AM	PLENARY SESSION 1: <i>REU Ethics Training</i> Francis Macrina, Ph.D., Virginia Commonwealth University <i>"Engaging Undergraduates in the Responsible Conduct of Research Training"</i>
10:45 AM - 10:50 AM	INSTRUCTIONS ON BREAKOUT SESSIONS
10:50 AM - 11:00 AM	AM BREAK (Beverages and Light Snacks)
11:00 AM - 12:00 PM	BREAKOUT SESSION 1: <i>REU Best Practices and Issues (1)</i> Attendees – see breakout session participant lists in your registration packet for your assigned room
12:00 PM - 12:45 PM	WORKING LUNCH (Box Lunch Provided)
12:45 PM - 1:00 PM	Diana Anderson, NSF BIO/DBI Program Director Ethics Training and REU Programs
1:00 PM - 2:45 PM	PLENARY SESSION 2: <i>Assessing Outcomes of REU Programs</i> Sandra Laursen, Ph.D., University of Colorado – Boulder <i>"Student Self-Assessment and Research Learning Gains" and URSA</i> David Lopatto, Ph.D., Grinnell College <i>"The Survey of Undergraduate Research Experiences (SURE)"</i>

Agenda Continued

Friday, March 19 Continued

2:45 PM - 2:55 PM	PM BREAK (Beverages and Light Snack)
2:55 PM - 4:05 PM	SMALL GROUP DISCUSSIONS: “REU Future Plans and Sustainability” <i>Ethics and the responsible conduct of research training</i> <i>Assessment of REU outcomes (including common assessment tool)</i> Attendees – see breakout session participant lists in your registration packet for your assigned room
4:05 PM – 4:15 PM	RETURN TO LARGE GROUP
4:15 PM - 5:30 PM	PLENARY DISCUSSION: <i>Ethics and the responsible conduct of research training, and assessment of REU outcomes (including common assessment tool)</i> Reports from small groups, Questions, and Discussion
5:30 PM – 6:00 PM	ANNOUNCEMENTS
6:00 PM	ADJOURN FOR DAY (Dinner on your own) PIZZA meeting - presentation by Bob Powell (Avila University) “Publishing with undergraduate REU participants – tips and strategies”

Saturday, March 20

7:30 AM - 8:30 AM	HOT BREAKFAST (Vantage Point Rooftop Restaurant)
8:30 AM - 9:15 AM	PLENARY SESSION 3: <i>REU Future Plans and Sustainability</i> Alan Savitzky and Diana Anderson, NSF BIO/DBI Program Directors Lida Robinson, <i>Biology REU Sites: Summer of 2009</i> Jairo Pava, <i>REU website</i>
9:15 AM - 9:30 AM	AM BREAK (Beverages and Light Snacks)
9:30 AM - 10:30 AM	BREAKOUT SESSION 2: <i>REU Best Practices and Issues (2)</i> Attendees – see breakout session participant lists in your registration packet for your assigned room
10:30 AM - 10:40 AM	RETURN TO LARGE GROUP
10:40 AM - 12:00 PM	BREAKOUT SESSION REPORTING Group Facilitators and Reporters summarize results from sessions 1 and 2 Discussions
12:00 PM - 12:30 PM	FINAL REMARKS
12:30 PM	MEETING ADJOURNED

Poster Session
(Thursday (3/18); 4:00 pm to 6:10 pm)

Note: Session 1 presenters set up prior to 4 pm and must take down at 5 pm to make room for Session 2.

POSTER SESSION 1 (4:00 pm - 5:00 pm)

Poster #	First Name	Last Name	Poster Title
1	Aaron	Ellison	Long-term impacts of the Harvard Forest REU Site
2	Patricia	Kelley	REU in Biodiversity Conservation: a multidisciplinary, collaborative approach to undergraduate research
3	Benoit	Dayrat	REU Site: Yosemite Research Training in Environmental Science
4	T'ai	Roulston	The REU Program at the University of Virginia's Blandy Experimental Farm
5	Mark	Running	Enrichment Components in the Summer REU Program at the Donald Danforth Plant Science Center
6	Emilia	Martins	Successful Research Experiences in Animal Behavior
7	Brozik	James	WSU REU: Chemical and Physical Characterization of Biological Systems
8	Carmen	Domingo	SFSU REU Program in Ecological Evolutionary Developmental Biology
9	Omar	Oyarzabal	Interdisciplinary Studies for Sensor and Biosensor Development
10	Gwen	Sancar	REU in Molecular Biosciences at the University of North Carolina at Chapel Hill: An Integrative Science Experience
11	Elica M.	Moss	Mentoring 21st Century Scientists in Environmental and Natural Resource Sciences: A National Science Foundation Research...
12	Alonso	Ramirez	Undergraduate research training in tropical ecology in Puerto Rico
13	Diane	Neudorf	Research Experience for Undergraduates in Experimental Field Biology at Sam Houston State University
14	Eric	Nagy	Independent Field Research in Ecology, Evolution and Behavior at Mountain Lake Biological Station
15	Paul	Blum	NSF REU Site: Bioenergy Systems – Integrating Institutional Approaches in Nebraska
16	John	Barthell	An REU Program in Turkey: Students Studying Biological Invasions within a Global Context

Poster Session Continued

Note: Session 2 presenters set up from 5-5:10 after Session 1 and must take down at 6:10 pm.

POSTER SESSION 2 (5:10 pm – 6:10 pm)

Poster #	First Name	Last Name	Poster Title
17	David	Berg	Students Grow as Scientists and Citizens through REU Enrichment Activities
18	Michelle	Whaley	Enriching the REU Experience
19	Janet	Schottel	Student Recruitment for the Summer REU Program at the University of Minnesota
20	Michelle	Evans-White	Minority student recruitment strategies for REU programs
21	Paul	Laybourn	Minority Under Representation in Science: Why, should we care, and can we fix it?
22	Jeremy	Guinn	ND Tribal College REU Program 2009: Research Experiences for Undergraduates in Ecology
23	Paul	Bosland	Underrepresented Hispanic Migrant Students Succeed Through Agricultural Science
24	Van A.	Doze	Providing Research Experiences for Undergraduates (REU) from Rural and Tribal Colleges
25	David	Pfeiffer	Assessing the effectiveness of REU Program recruiting strategies at the University of Alaska Anchorage
26	Tamim	Younos	Overview of REU Site Assessment Tools and Outcomes
27	Georg	Jander	Web-Based Submission and Evaluation of REU Applications
28	John	Wallace	NSF-REU programs: How undergraduate student research in aquatic ecology can survive
29	Rachel	Skvirsky	REU Ethics Training at UMass Boston.
30	Brooke	McCartney	To Be Announced

Breakout Session 1 – Room Assignments
(Friday (3/19): 11:00 am to 12:00 pm)

SESSION 1 BREAKOUT GROUP A. Recruiting A Strong Class of Students

Shenandoah A	Shenandoah B	Shenandoah C (minority recruitment focus)
George Bennett David Berg (Reporter) Susan Bridges Daniel Darling RobertDonaldson (Facilitator) Aaron Ellison Michelle Evans-White Thomas Gilmore Leslie Hicks Georg Jander Venu Kalavacharla Paul Laybourn (Note-Taker) Brooke McCartney Christian Mohr Max Rothschild Maya Scott Bruce Snyder Tomalei Vess Louise Warburton Gail Waring	Joseph Ayoob Paul Blum (Note-Taker and Reporter) Robert Burgess Van Doze Kevin Heinz Patricia Kelley Ray Matlack Randy Mitchell Biswarup Mukhopadhyay (Facilitator) Linda Overstreet-Wadiche Istvan Pelczer Dawn Pologruto Andrea Romani Joel Schildbach Philip Starks Julie Stone Richard Thomas Jean VanderGheynst Tara Westlie Tamim Younos Alan Wilson	Cort Anderson Richard Allison Janet Keithly Karen Burnett Barbara Battelle Susan Carson (Facilitator) Paulinus Chigbu (Note-Taker) Trevor Creamer John Dighton Cherie Dotson Anson Hines Kristen Kimball Gary Kunkel Michael McKernan Diane Neudorf David Pfeiffer Michael Pullin (Reporter) Sujaya Rao Ginger Richardson Janet Schottel Donald Woodson

SESSION 1 BREAKOUT GROUP B. Student Training

Dogwood			
Sarwan Dhir Bert Ely Zen Faulkes Jeremy Guinn William Gurley	Rodney Honeycutt James Brozik (Reporter) Jennifer Johnson David Lopatto Emilia Martins	Richard Meagher Eric Nagy Jairo Pava Kyle Haynes (Facilitator)	Christie Sayes John Spitsbergen Jocelyn Spragg Michelle Whaley (Note-Taker)

Breakout Session 1 – Room Assignments Continued
(Friday (3/19): 11:00 am to 12:00 pm)

SESSION 1 BREAKOUT GROUP C. Mentor Training and Support

Rosslyn Ballroom (Left Side)		Rosslyn Ballroom (Right Side)	
Chiye Aoki (Note-Taker)	Mark Running	Nina Barcenas	David Pearce
Olga Bolden-Tiller	Tim Sherman	Timothy Bennett	Alonso Ramirez
Patrick Bourgeron	Sherry Tamone	Linda Blockus	Vijay Rangachari
Mary Cloninger	Stephen Taylor	Scott Collins	Shivendra Sahi
Dominique Didier	Yong Wang	Zachary Lippman	Rachel Skvirsky
Dagit (Reporter)	(Facilitator)	Kathryn Miller	Eric Stabb
Carmen Domingo	David Weiss	Sherri Morris	Jennifer Stynoski
Lisa Dorn	Jennifer West	(Reporter)	(Note-Taker)
William Eaton	Amy Whipple	Elica M. Moss	John Wehr
Joel Green	Sharon Ziegler-	Peter O'Day	David A. Weisblat
Wendy Hamilton	Chong	(Facilitator)	
Howard Judelson			

SESSION 1 BREAKOUT GROUP D. Institutional Support For Your REU Program

Jefferson	
Chris Barney (Reporter)	Anne Galbraith (Facilitator)
John Barthell	Carla Hass
Eugene Billiot	Rich Mooi
Paul Bosland	Omar Oyarzabal
Sean Craig	Eduardo Robleto
Benoit Dayrat	Esta Sancar (Note-Taker)
	Petra Sierwald

**Small Group Discussion – Room Assignments
(Friday 3/19; 2:55 – 4:05 PM)**

Shenandoah A		Shenandoah B		Shenandoah C	
Richard	Allison	Joseph	Ayoob	Cort	Anderson
Barbara	Battelle	Chris	Barney	Nina	Barcnas
Olga	Bolden-Tiller	Paul	Blum	Linda	Blockus
Scott	Collins	Patrick	Bourgeron	Janet	Branchaw (Facilitator)
Trevor	Creamer	Susan	Bridges	Heike	Bucking
Sarwan	Dhir	Carmen	Domingo	Robert	Burgess
William	Eaton	Cherie	Dotson	Anne	Galbraith
Aaron	Ellison	Bert	Ely	Anson	Hines
Joel	Green	Jeremy	Guinn	Jennifer	Johnson
Kimball	Kristen	Venu	Kalavacharla	Janet	Keithly
Zachary	Lippman	Rich	Mooi	Patricia	Kelley
Michael	McKernan	Sherri	Morris	Paul	Laybourn
Linda	Overstreet-Wadiche	Istvan	Pelczer	Christian	Mohr
Robert	Powell (Facilitator)	Andrea	Romani	Biswarup	Mukhopadhyay
Sujaya	Rao	Shivendra	Sahi	Peter	O'Day
Eduardo	Robleto	Christie	Sayes	Dawn	Pologruto
Maya	Scott	Amanda	Simcox (Facilitator)	Esta	Sancar
Tim	Sherman	Julie	Stone	Kevin	Strychar
Philip	Starks	Louise	Warburton	Tomalei	Vess
Jennifer	Stynoski	Tara	Westlie	Yong	Wang
Michelle	Whaley	Sharon	Ziegler-Chong	Donald	Woodson

Dogwood			
George	Bennett	Kyle	Haynes
Paul	Bosland	Howard	Judelson
Sean	Craig	Marty	Matlock (Facilitator)
Benoit	Dayrat	Max	Rothschild
John	Dighton	Janet	Schottel
Robert	Donaldson	Bruce	Snyder
William	Gurley	John	Wehr
Wendy	Hamilton	Jennifer	West

Jefferson					
Chiye	Aoki	Kathryn	Miller	John	Spitsbergen
John	Barthell	Eric	Nagy	Eric	Stabb
Karen	Burnett	David	Pearce	David	Weiss
Kevin	Heinz	Mark	Running		
Georg	Jander	Julio	Soto (Facilitator)		

Small Group Discussion – Room Assignments Continued
(Friday 3/19; 2:55 – 4:05 PM)

Rosslyn Ballroom (Left Side)		Rosslyn Ballroom (Right Side)	
Ian	Billick (Facilitator)	David	Berg
Susan	Carson	Alan	Berkowitz (Facilitator)
Dominique	Didier Dagit	Paulinus	Chigbu
Lisa	Dorn	Michelle	Evans-White
Van	Doze	Carla	Hass
Zen	Faulkes	Gary	Kunkel
Thomas	Gilmore	Randy	Mitchell
Leslie	Hicks	Elica M.	Moss
Rodney	Honeycutt	Omar	Oyarzabal
Brozik	James	Alonso	Ramirez
Emilia	Martins	Vijay	Rangachari
Brooke	McCartney	Ginger	Richardson
Richard	Meagher	Joel	Schildbach
Diane	Neudorf	Rachel	Skvirsky
David	Pfeiffer	Jocelyn	Spragg
Petra	Sierwald	Richard	Thomas
Sherry	Tamone	Jean	VanderGheynst
Stephen	Taylor	David A.	Weisblat
Barbara	Ventrello	Alan	Wilson
Gail	Waring	Tamim	Younos
Amy	Whipple		

Breakout Session 2 – Room Assignments
(Saturday (3/20): 9:30 am to 10:30 am)

SESSION 2 BREAKOUT GROUP A. Assessing Outcomes For Program Improvement

Shenandoah A	Shenandoah B	Shenandoah C
Chris Barney	Olga Bolden-Tiller	Cort Anderson
Daniel Darling	Paul Bosland	Paul Blum
Sarwan Dhir (Facilitator)	Paulinus Chigbu	Carmen Domingo
Bert Ely	John Dighton	(Facilitator)
Zen Faulkes	Lisa Dorn (Facilitator)	Christian Mohr
Anne Galbraith	Van Doze	Eric Nagy
Tony Gamble	Kevin Heinz	Peter O'Day
Carla Hass (Reporter)	Patricia Kelley	DavidP feiffer
Kristen Kimball	Michael McKernan	Vijay Rangachari
Brook McCartney	Rich Mooi	Rachel Skvirsky
Linda Overstreet-Wadiche	Andrea Romani	John Spitsbergen
Dawn Pologruto	Joel Schildbach	Jocelyn Spragg
Ginger Richardson	Janet Schottel (Reporter)	Jennifer Stynoski
Philip Starks	Tim Sherman	Sherry Tamone (Note-Taker)
Julie Stone	Richard Thomas	David Weiss (Reporter)
Stephen Taylor	Gail Waring	Jennifer West
Jean VanderGheynst	Sharon Ziegler-Chong (Note-Taker)	Alan Wilson
Yong Wang		
John Wehr (Note-Taker)		
Tamim Younos		

SESSION 2 BREAKOUT GROUP B. Assessing Outcomes For Undergraduate Research Learning Gains

Rosslyn Ballroom (Left Side)		Rosslyn Ballroom (Right Side)	
Chiye Aoki	Paul Laybourn	Eugene Billiot	Randy Mitchell
Nina Barcenias	Kathryn Miller	Cherie Dotson	Sherri Morris
John Barthell	(Facilitator)	William Eaton	Biswarup
Barbara Battelle	Diane Neudorf	Aaron Ellison	Mukhopadhyay
George Bennett	Michael Pullin	Michelle Evans-White	Istvan Pelczer
David Berg	Alonso Ramirez	William Gurley	Max Rothschild
Susan Bridges	Sujaya Rao	Wendy Hamilton	Kyle Haynes
Heike Bucking	Eduardo Robleto	Anson Hines	Mark Running
Karen Burnett	(Note-Taker)	Georg Jander	(Reporter)
Susan Carson	Shivendra Sahi	Howard Judelson	Esta Sancar
Trevor Creamer	Bruce Snyder	Venu Kalavacharla	David A. Weisblat
Benoit Dayrat	Tomalei Vess	(Note-Taker)	Michelle Whaley
(Reporter)	Louise Warburton	David Lopatto	Amy Whipple
Thomas Gilmore		Ray Matlack	(Facilitator)
Rodney Honeycutt			Donald Woodson

Breakout Session 2 – Room Assignments Continued
(Saturday (3/20): 9:30 am to 10:30 am)

SESSION 2 BREAKOUT GROUP C. Community Resource Development

Dogwood	
Richard Allison (Note-Taker)	Jennifer Johnson
Joseph Ayoob	Zachary Lippman
Timothy Bennett	Richard Meagher
Robert Burgess	David Pearce
Sean Craig (Reporter)	Christie Sayes
Robert Donaldson (Facilitator)	Maya Scott
Leslie Hicks	Tara Westlie

SESSION 2 BREAKOUT GROUP D. REU Action Plan

Jefferson	
Linda Blockus (Reporter)	Gary Kunkel
Patrick Bourgeron	Emilia Martins
Scott Collins	Elica M. Moss
Dominique Didier Dagit	Omar Oyarzabal (Note-Taker)
Joel Green	Jairo Pava
Jeremy Guinn	Petra Sierwald
James Brozik	Eric Stabb
Janet Keithly (Facilitator)	

Workshop Links

REU BIO Website

<http://www.bioreu.org/>

Attendee List

<http://www.bioreu.org/node/6>

Poster Session Abstracts

<http://www.bioreu.org/node/7>

Information on Ethics and Ethics Training

NSF 10-547 Call for Proposals “Ethics in Science, Mathematics, and Engineering Online Resource Center (Ethics Resource)”

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=503490&org=EHR&from=home

NSF FAQ Responsible Conduct of Research

http://www.nsf.gov/pubs/policydocs/rcr/faqs_mar10.pdf

On-line Ethics Center

<http://www.onlineethics.org/CMS/about/UserGuide/18848.aspx>

Examples of On-line Assessment Tools

Undergraduate Research Student Self-Assessment (URSSA)

<http://spot.colorado.edu/~laursen/accessURSSA.html>

Survey of Undergraduate Research Experiences (SURE III)

<http://web.grinnell.edu/sureiii/>

BIO REU Leadership Committee

Alan Berkowitz, Cary Institute of Ecosystem Studies

berkowitza@caryinstitute.org

Ian Billick, Rocky Mountain Biological Laboratory

director@rmbll.org

Janet Branchaw, University of Wisconsin Madison

branchaw@wisc.edu

Kristina Garza, University of Texas – El Paso

kgarza@utep.edu

Robyn Hannigan, UMass Boston (Chair)

robyn.hannigan@umb.edu

Marty Matlock, University of Arkansas

mmatlock@uark.edu

John Matsui, UC Berkeley

matsui@uclink4.berkeley.edu

Bob Powell, Avila University

Robert.Powell@avila.edu

Amanda Simcox, Ohio State University

simcox.1@osu.edu

Julio Soto, San Jose State University

jsoto3@email.sjsu.edu

Alan Christian, UMass Boston (co-chair, workshop committee)

alan.christian@umb.edu

Participant List and Email Addresses

First	Last	University/Organization	Email
Richard	Allison	Michigan State University	allison@msu.edu
Cort	Anderson	University of Idaho	cla@uidaho.edu
Diana	Anderson	NSF	danderso@nsf.gov
Chiye	Aoki	New York University	ca3@nyu.edu
Joseph	Ayoob	University of Pittsburgh	jayoob@pitt.edu
Nina	Barcnas	Heritage University	barcnas_n@heritage.edu
Chris	Barney	Hope College	barney@hope.edu
John	Barthell	University of Central Oklahoma	jbarthell@uco.edu
Barbara	Battelle	University of Florida	battelle@whitney.ufl.edu
George	Bennett	Rice University	gbennett@rice.edu
Timothy	Bennett	ND Assn of Tribal Colleges	bbennett@ndatc.org
David	Berg	Miami University	bergdj@muohio.edu
Alan	Berkowitz	Cary Institute of Ecosystem Studies	berkowitza@caryinstitute.org
Ian	Billick	Rocky Mtn. Bio. Lab	ibillick@rmbi.org
Linda	Blockus	University of Missouri	blockusl@missouri.edu
Paul	Blum	U. Nebraska-Lincoln	pblum1@unl.edu
Olga	Bolden-Tiller	Tuskegee University	obtiller@tuskegee.edu
Paul	Bosland	New Mexico State University	pbosland@nmsu.edu
Patrick	Bourgeron	Plymouth State University	psbourgeron@plymouth.edu
Janet	Branchaw	University of Wisconsin - Madison	branchaw@wisc.edu
Susan	Bridges	Mississippi State University	bridges@cse.msstate.edu
Heike	Bucking	South Dakota State University	heike.bucking@sdstate.edu
Robert	Burgess	The Jackson Laboratory	robert.burgess@jax.org
Karen	Burnett	College of Charleston	burnettk@cofc.edu
Susan	Carson	North Carolina State University	sue_carson@ncsu.edu
Paulinus	Chigbu	University of Maryland Eastern Shore	pchigbu@umes.edu
Alan	Christian	University of Massachusetts Boston	alan.christian@umb.edu
Scott	Collins	University of New Mexico	scollins@sevilleta.unm.edu
Sean	Craig	Humboldt State University	sfc4@humboldt.edu
Trevor	Creamer	University of Kentucky	trevor.creamer@uky.edu
Daniel	Darling	M.I.T.	ddarling@mit.edu
Benoit	Dayrat	University of California at Merced	bdayrat@ucmerced.edu
Sarwan	Dhir	Fort Valley State University	dhirs0@fvsu.edu
Dominique	Didier Dagit	Millersville University	ddagit@millersville.edu
John	Dighton	Rutgers University	dighton@camden.rutgers.edu
Carmen	Domingo	San Francisco State University	cdomingo@sfsu.edu
Robert	Donaldson	George Washington University	robdon@gwu.edu
Lisa	Dorn	University of Wisconsin Oshkosh	dorn@uwosh.edu
Cherie	Dotson	University of Michigan	crdotson@umich.edu
Van	Doze	University of North Dakota	vdoze@medicine.nodak.edu
William	Eaton	Kean University	weaton@kean.edu
Aaron	Ellison	Harvard University	aellison@fas.harvard.edu
Bert	Ely	University of South Carolina	ely@sc.edu
Michelle	Evans-White	University of Arkansas	mevanswh@uark.edu
Zen	Faulkes	The University of Texas-Pan American	zfaulkes@utpa.edu
Anne	Galbraith	University of Wisconsin La Crosse	galbrait.anne@uwlax.edu
Tony	Gamble	University of Minnesota	gamb1007@umn.edu
Thomas	Gilmore	Boston University	gilmore@bu.edu
Joel	Green	Northwest Indian College	jgreen@nwic.edu

Participant List and Email Addresses Continued

First	Last	University/Organization	Email
Jeremy	Guinn	Sitting Bull College	jeremyg@sbc.edu
William	Gurley	University of Florida	wgurley@ufl.edu
Wendy	Hamilton	New Mexico State University	whamilton@nmsu.edu
Robyn	Hannigan	UMass Boston	robyn.hannigan@umb.edu
Carla	Hass	Penn State	cah19@psu.edu
Kyle	Haynes	University of Virginia	kjh8w@virginia.edu
Kevin	Heinz	Texas A&M University	t-gold@tamu.edu
Leslie	Hicks	Danforth Center	lhicks@danforthcenter.org
Anson	Hines	Smithsonian	hinesa@si.edu
Rodney	Honeycutt	Pepperdine University	rodney.honeycutt@pepperdine.edu
Brozik	James	Washington State University	brozik@wsu.edu
Georg	Jander	Boyce Thompson Institute	gj32@cornell.edu
Jennifer	Johnson	University of New Mexico	jjohnson@sevilleta.unm.edu
Howard	Judelson	University of California	howard.judelson@ucr.edu
Venu	Kalavacharla	Delaware State University	vkalavacharla@desu.edu
Janet	Keithly	SUNY Albany/Wadsworth Center	keithly@wadsworth.org
Patricia	Kelley	University of North Carolina Wilmington	kelleyp@uncw.edu
Kimball	Kristen	University of Connecticut	kristen.kimball@uconn.edu
Gary	Kunkel	Texas A&M University	g-kunkel@tamu.edu
Paul	Laybourn	Colorado State University	paul.laybourn@colostate.edu
Zachary	Lippman	Cold Spring Harbor Laboratory	lippman@cshl.edu
David	Lopatto	Grinnell College	lopatto@grinnell.edu
Emilia	Martins	Indiana University, Bloomington	emartins@indiana.edu
Ray	Matlack	West Texas A&M University	rmatlack@wtamu.edu
Marty	Matlock	University of Arkansas	mmatlock@uark.edu
Brooke	McCartney	Carnegie Mellon University	bmccartney@cmu.edu
Michael	McKernan	Mount Desert Island Biological Laboratory	mmckernan@mdibl.org
Richard	Meagher	University of Georgia	meagher@uga.edu
Kathryn	Miller	Washington University, St. Louis	miller@wustl.edu
Randy	Mitchell	University of Akron	rjm2@uakron.edu
Christian	Mohr	University of Minnesota	mohrx005@umn.edu
Rich	Mooi	California Academy of Sciences	rmooi@calacademy.org
Sherri	Morris	Bradley University	sjmorris@bradley.edu
Elica M.	Moss	Alabama A&M University	elica.moss@aamu.edu
Biswarup	Mukhopadhyay	Virginia Tech	biswarup@vt.edu
Eric	Nagy	University of Virginia	enagy@virginia.edu
Diane	Neudorf	Sam Houston State University	neudorf@shsu.edu
Sally	O'Connor	NSF	soconnor@nsf.gov
Peter	O'Day	University of Oregon	oday@uoregon.edu
Linda	Overstreet-Wadiche	UAB	lwadiche@uab.edu
Omar	Oyarzabal	Alabama State University	ooyarzabal@alasu.edu
Jairo	Pava	Florida International University	jpava001@fiu.edu
David	Pearce	Sanford Research	pearced@sanfordhealth.org
Istvan	Pelczer	Princeton University	ipelczer@princeton.edu
David	Pfeiffer	University of Alaska Anchorage	afdc@uaa.alaska.edu
Dawn	Pologruto	Cold Spring Harbor Laboratory	dpologru@cshl.edu
Robert	Powell	Avila University	robert.powell@avila.edu
Alonso	Ramirez	University of Puerto Rico	aramirez@ites.upr.edu
Vijay	Rangachari	University of Southern Mississippi	vijay.rangachari@usm.edu

Participant List and Email Addresses Continued

First	Last	University/Organization	Email
Sujaya	Rao	Oregon State University	sujaya@oregonstate.edu
Ginger	Richardson	Santa Fe Institute	grr@santafe.edu
Eduardo	Robledo	UNLV	eduardo.robledo@unlv.edu
Andrea	Romani	Case Western Reserve University	amr5@po.cwru.edu
Max	Rothschild	Iowa State University	mfrothsc@iastate.edu
Mark	Running	Donald Danforth Plant Science Center	mrunning@danforthcenter.org
Shivendra	Sahi	Western Kentucky University	shiv.sahi@wku.edu
Esta	Sancar	UNC-Chapel Hill	gwendolyn_sancar@med.unc.edu
Alan	Savitzky	NSF	asavitzk@nsf.gov
Christie	Sayes	Texas A & M University	csayes@cvm.tamu.edu
Joel	Schildbach	Johns Hopkins University	joel@jhu.edu
Janet	Schottel	University of Minnesota	schot002@umn.edu
Maya	Scott	Texas A&M University	msscott@cvm.tamu.edu
Tim	Sherman	Univ. of South Alabama	tsherman@jaguar1.usouthal.edu
Petra	Sierwald	Field Museum of Natural History	psierwald@fieldmuseum.org
Amanda	Simcox	Ohio State University	simcox.1@osu.edu
Rachel	Skvirsky	UMass Boston	rachel.skvirsky@umb.edu
Bruce	Snyder	Kansas State University	basnyder@ksu.edu
Julio	Soto	San Jose State University	jsoto3@email.sjsu.edu
John	Spitsbergen	Western Michigan University	john.spitsbergen@wmich.edu
Jocelyn	Spragg	Harvard University	jocelyn_spragg@hms.harvard.edu
Eric	Stabb	University of Georgia	estabb@uga.edu
Philip	Starks	Tufts University	philip.starks@tufts.edu
Julie	Stone	University of Nebraska - Lincoln	jstone2@unl.edu
Kevin	Strychar	Texas A&M - Corpus Christie	kevin.strychar@tamucc.edu
Jennifer	Stynoski	Organization for Tropical Studies	stynoski@gmail.com
Sherry	Tamone	University of Alaska Southeast	sltamone@uas.alaska.edu
Stephen	Taylor	Delaware State University	staylor@desu.edu
Richard	Thomas	West Virginia University	rthomas@wvu.edu
Jean	VanderGheynst	UC Davis	jsvander@ucdavis.edu
Barbara	Ventrello	Santa Fe Institute	barbarav@santafe.edu
Tomalei	Vess	Duke	tomalei.vess@duke.edu
Yong	Wang	Alabama A&M University	wang.aamu@gmail.com
Louise	Warburton	Chicago Botanic Garden	lwarburton@chicagobotanic.org
Gail	Waring	Marquette University	gail.waring@marquette.edu
John	Wehr	Fordham University	wehr@fordham.edu
David A.	Weisblat	Univ. of Calif., Berkeley	weisblat@berkeley.edu
David	Weiss	The University of Iowa	david-weiss@uiowa.edu
Jennifer	West	Rice University	jwest@rice.edu
Tara	Westlie	The University of Montana	tara.westlie@umontana.edu
Michelle	Whaley	University of Notre Dame	whaley.3@nd.edu
Amy	Whipple	Northern Arizona University	amy.whipple@nau.edu
Alan	Wilson	Auburn University	wilson@auburn.edu
Donald	Woodson	University of California San Francisco	donald.woodson@ucsf.edu
Tamim	Younos	Virginia Tech	tyounos@vt.edu
Sharon	Ziegler-Chong	University of Hawaii at Hilo	ziegler@hawaii.edu