

2004 ORBS Symposium I 16 October 2004

Opportunities for Research in the Behavioral Sciences

Theme: Strengths, Resources, & Needs in San Diego

Location: UCSD, Natural Sciences Building Rm. 1205

ORBS MISSION STATEMENT

The mission of the ORBS (Opportunities for Research in the Behavioral Sciences) Program is to provide research opportunities in the Behavioral Sciences for minority and underprivileged high school and college students in the San Diego area. The goal of ORBS is to encourage students to attend or transition to four-year colleges and to generate a greater interest in and awareness of careers in the sciences.

GOALS FOR ORBS SYMPOSIUM I

The fiscal crisis in California has severely reduced funding to many enrichment programs, including those in the sciences. Now more than ever, we should consider how the diverse programs and groups in our San Diego community can build bridges and share resources with each other. Thus the theme for this conference is centered on our local strengths, resources, and needs. We share the common goal of helping our students excel in higher education and in the sciences. Together, we can be stronger and more effective.

Goal 1: *Networking.* Establishing a list of minority and underprivileged education programs in the San Diego area and having the main participants meet in an open forum.

Goal 2: *Defining needs.* Working individually, our programs have encountered common problems and developed solutions that can be shared. As a consortium of minority and underprivileged student programs, we will have new needs that should be defined and explored. **In particular, it is important to have dialog between high school teachers and faculty at universities and community colleges to establish what these needs are.**

Goal 3: *Sharing resources.* We have human and material resources that we may be able to share and thereby use more efficiently. For example, the ORBS program has recently been granted 30 Terabytes of free computer file storage space through the Storage Resource Broker at the San Diego Supercomputer Center. We would like to see if other programs could also use this resource.

Goal 4: *Presenting student research and student models of excellence.* The symposium is a primary venue for students who conduct research in the Behavioral Sciences to present their work and to serve as role models for other student attendees.

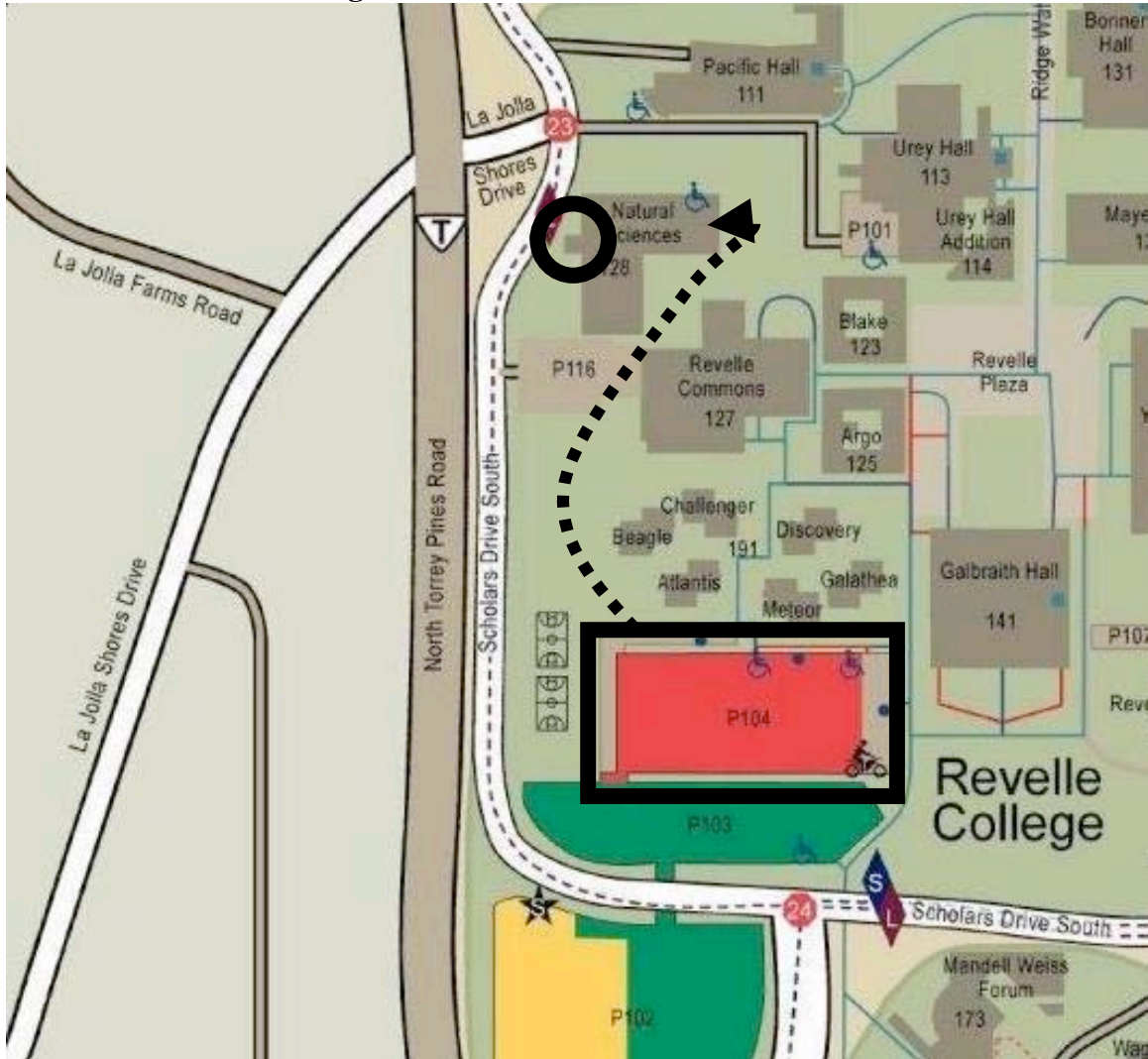
Goal 5: *Future priorities.* Where do we go from here? What is the best way to help our students, institutions, and programs? How can we plan for state budget cuts and preserve our missions.

Questions? Please contact the symposium organizer, James C. Nieb, jnieb@ucsd.edu, (858) 822-5010

MAPS, DRIVING DIRECTIONS, & PARKING

The symposium is being held at the University of California, San Diego in the first floor lecture hall of the Natural Sciences Building, Rm 1205. Additional map information can be obtained at <http://maps.ucsd.edu/Viewer.htm?Map=Visitor>

From the south, drive up I-5 and exit west on La Jolla Village Drive. This road becomes North Torrey Pines Road. Make a right turn east onto Revelle College Drive and park in P104 (the rectangle). Parking is free on the weekends. Follow the dashed line to the building entrance. The circle marks the location of the lecture hall.

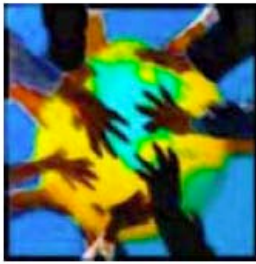




This is an aerial view showing the parking lot. The circle marks the lecture hall.



The Natural Sciences Building



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8:30 – 9:15 Continental Breakfast Bar

Opening remarks

9:15 – 9:40 am	James C. Nieh	UCSD, Section of Ecology, Behavior, and Evolution	Creating a regional center of excellence
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Research opportunities for students (20 min talk, 5 min Q&A)

9:40 – 10:05 am	James C. Nieh	UCSD, Section of Ecology, Behavior, and Evolution	Stingless bee communication
10:05 - 10:30 am	James Goodson	UCSD, Psychology Department	The neural construction of social behavior
10:30 – 10:55 am	Terry McGlynn	USD, Department of Biology	Behavioral ecology of tropical ants
10:55 - 11:20 am	Erin Wilson	UCSD, Section of Ecology, Behavior, and Evolution	Wasp foraging
11:20 - 11:45 am	David Holway	UCSD, Section of Ecology, Behavior, and Evolution	Invasion biology of Argentine ants

Lunch Break 11:45 am -12:30 pm (box lunches: vegetarian, turkey, and chicken salad provided). Please meet in the outside lobby for the first official ORBS conference photo!

Integrating Programs: resources and needs across San Diego (15 min)

12:30 - 12:45 pm	Minou Spradley	San Diego City College	Student resources and needs at SDCC
12:45 – 1:00 pm	Albert Lacson	UCSD McNair Scholars Program	Minority education programs at UCSD
1:00 – 1:15 pm	Jude Poole	UCSD, Biology Computing Services	Data storage resources for ORBS at the San Diego Supercomputer Center
1:15 – 1:30 pm	Nouna Bakhiet	Southwestern College	Bridges program
1:30 – 1:45 pm	Margie Stinson	Southwestern College	Student resources and needs at Southwestern
1:45 – 2:00 pm	Ann Bowles	Hubbs-Seaworld Research Institute	Research opportunities at Hubbs-Sea World

Coffee & Cookie Break 2:00 – 2:15 pm

Student research: (10 min talk, 5 min Q&A)

2:15 – 2:30 pm	Indalicio Manzano	Preuss School	Student resources and needs at the Preuss School
2:30 – 2:45 pm	Hien Nguyen	UCSD, MS/BS program	Excitatory recruitment behavior in bumblebees, <i>Bombus occidentalis</i>
2:45 – 3:00 pm	Nik Sadler	UCSD, MS/BS program	Potential thermal information flow in honeybees

3:00 –3:30 pm Round table discussion: (potential topics listed below)

- 1) Creating an ORBS committee
- 2) Common problems and solutions
- 3) **Involving high and middle school students and teachers in research opportunities. What special needs do high and middle school students have and how can we meet these needs?**
- 4) Sharing resources
- 5) Agenda items for ORBS II (2005): rotating the ORBS meeting to different institutions, choosing the site for 2005.

PARTICIPATING INSTITUTIONS & PROGRAMS

University of California San Diego: STARS minority program

University of California San Diego: ORBS program

University of San Diego: PURE program

San Diego City College: ORBS program

Southwestern College: ORBS program

Kearny High Complex: School of Science Connections & Technology

Preuss School

Hubbs-Seaworld Research Institute

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***Individuals in the San Diego area who are not able to attend, but who are interested in participating in minority education programs.**

ADDITIONAL INFORMATION:

STARS, Summer Training Academy for Research in the Sciences - offers exciting research opportunities for undergraduate juniors and seniors, recent graduates and masters students in the sciences (behavioral, physical, life, marine and ocean), engineering and math. The academy provides research experience and preparation for the challenges of doctoral programs. The goal of the program is to increase the numbers of underrepresented students in these programs.