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Are you a **FACES alum**? Let us know where you are and what you're doing.

*Facilitating Academic Careers in Engineering and the Sciences is a project of the National Science Foundation Alliances for Graduate Education and the Professoriate. The participating institutions are **Georgia Institute of Technology, Morehouse College, Spelman College, and Emory University**. Our mission is to increase the number of science professors from underrepresented ethnic groups.*



RFA: FACES Career Initiation Grant

Recent PhD alumni and postdocs of FACES institutions are encouraged to apply for the FACES Career Initiation Grant. FACES is excited to support investigators as they enter the professoriate.

The awardee will receive **\$30,000** to use toward lab equipment, travel, personnel, and the like. Applications can be found at

http://www.biomed.emory.edu/PROGRAM_SITES/FACES/ and are **due April 15, 2007**. Eligibility requirements and a list of previous CIG recipients can also be found on the website.

We look forward to receiving and reviewing your application. For more information on the FACES Career Initiation Grant, please contact Reginald DesRoches, PhD (reginald.desroches@ce.gatech.edu)

RFA: FACES Postdoctoral Fellowship

Recent PhD alumni and postdocs of FACES institutions are encouraged to apply for the FACES 'Portable Postdoc.' FACES recognizes that, for many disciplines, postdoctoral training is critical for entry into the professoriate.

The awardee will receive **\$35,000** to use toward postdoctoral training, travel, equipment and the like. Applications are available at

http://www.biomed.emory.edu/PROGRAM_SITES/FACES/ FACES and are **due May 1, 2007**. Visit the website for eligibility requirements and a list of past Fellowship winners.

For more information, eligibility, or applications, please contact Karama Neal, PhD at kneal@emory.edu.

We look forward to receiving and reviewing your application.

Interested in postbac programs?

These two sites provide excellent lists of **postbac programs** across the country. Visit <http://hpap.syr.edu/pblast.htm> and <http://www.nigms.nih.gov/Minority/MARC/PartInstPREP>.

Ethics Case Study: Data Selection

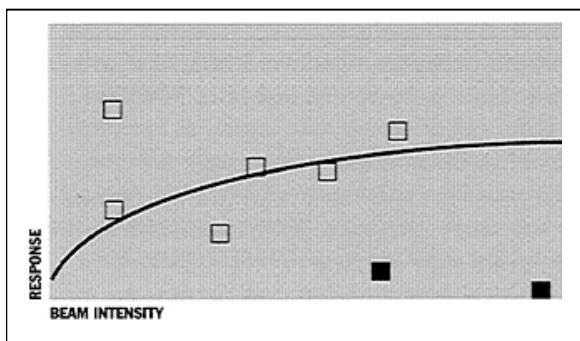
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Read more than 3,000 books online, including **On Being a Scientist**, for **FREE!**

Deborah, a third-year graduate student, and Kathleen, a postdoc, have made a series of measurements on a new experimental semiconductor material using an expensive neutron source at a national laboratory. When they get back to their own laboratory and examine the data, they get the following data points (see below). A newly proposed theory predicts results indicated by the curve. During the measurements at the national laboratory, Deborah and Kathleen observed that there were power fluctuations they could not control or predict. Furthermore, they discussed their work with another group doing similar experiments, and they knew that the other group had gotten results confirming the theoretical prediction and was writing a manuscript describing their results.

In writing up their own results for publication, Kathleen suggests dropping the two anomalous data points near the abscissa (the solid squares) from the published graph and from a statistical analysis. She proposes that the existence of the data points be mentioned in the paper as possibly due to power fluctuations and being outside the expected standard deviation calculated from the remaining data points. "These two runs," she argues to Deborah, "were obviously wrong."

- How should the data from the two suspected runs be handled?
- Should the data be included in tests of statistical significance? Why or why not?
- What other sources of information, in addition to their faculty advisor, can Deborah and Kathleen use to help decide?



See page 4 for the thoughts from the National Academy of Sciences.

Case and commentary from "On Being a Scientist: Responsible Conduct in Research" 1995 from the National Academy of Sciences. Please visit the National Academy press at <http://books.nap.edu/catalog/4917.html>.

Morehouse/Spelman students to attend SURE International in France

Georgia Tech recently received NSF funding to expand their Summer Undergraduate Research in Engineering/Science (SURE) program to the **Georgia Tech Lorriane** campus in Metz, France. This summer, five students from Morehouse and Spelman Colleges will spend ten weeks conducting electrical and computer engineering and computer science research at the affiliated **Centre National de la Recherche Scientifique**. The program will increase the "global-readiness" of science and engineering students and is aimed at students who are already proficient in French. This is the first year of the three-year program. Please contact Gary May, PhD (gary.may@ece.gatech.edu) for more information on SURE International.

FACES Papers, presentations and more

* **Ebony Glover**, FACES Fellow (Emory), has been invited to participate in the 2007 Career Development Institute for Psychiatry at Stanford University. She was also awarded the American Psychological Association Minority Fellowship, and presented recent work at the American Psychological Association Convention ("Tolerance and cross-tolerance to the anxiolytic and analgesic effects of morphine and buprenorphine administration in the rat") and the Society for Neuroscience Conference ("Tolerance, cross-tolerance, and withdrawal effects of morphine and buprenorphine in anxiety and analgesia").

* **Chris Green**, FACES Fellow (Georgia Tech) presented his work "Development of Leakage Model for Solid Oxide Fuel Cell Compressive Seals" at the annual meeting of the American Association for the Advancement of Science.

* **Lisa Montoya Cockrell**, FACES Fellow (Emory) presented her work ("Suppression of Apoptosis Signal-Regulating Kinase 1 by a novel 14-3-3/ASK2 Signaling Complex") at the NIH National Graduate Student Research Festival.

* **John Pulliam**, FACES Fellow (Emory) presented "Acoustic Startle Response in Socially Defeated Male Long Evans Rats" at the Society for Neuroscience meeting.

* **Chad Jackson**, FACES Fellow (Emory) was coauthor on "Temporal coupling of cAMP and Ca²⁺/Calmodulin-stimulated adenylyl cyclase to the circadian clock in chick retinal photoreceptor

cells." (2006) Journal of Neurochemistry 99: 1142.

* **Kanika Pulliam**, FACES Fellow (Emory) was coauthor on Nuclear Localization Signal-Receptor Affinity Correlates with in vivo localization in *S. cerevisiae*. (2006) J. Bio Chem. 281 (33): 23545

* **Jamie Mells**, FACES Fellow (Emory) will give an oral presentation entitled "Obesity induced insulin resistance and oxidative stress in mice fed a high fat diet" at Experimental Biology 2007.

* **Meriem Gaval**, FACES Fellow (Emory) presented her work "Effect of disulfiram and dopamine beta-hydroxylase genotype on cocaine-induced seizures" at the Society for Neuroscience Conference.

* **Gary May, PhD**, FACES Steering Committee Chair (Georgia Tech) received the 2006 AAAS Mentor Award for his outstanding contributions in recruiting, mentoring, and educating members of underrepresented groups in science and engineering careers. He was presented with this award in February 2007 at the AAAS Annual Meeting.

* **S. Gordon Moore**, FACES Steering Committee member (Georgia Tech), will receive the Golden Torch Award from the National Society of Black Engineers. He will be named Minority Engineering Program Director of the Year at the NSBE annual meeting in March.

Congratulations! Send your news to kneal@emory.edu.



*What's your bright idea?
Write about it in the
FACES newsletter!*

Don't miss a thing!

*Back issues of **Face Forward** are available at:*

<http://www.faces.gatech.edu/2007/newsletters.htm>

Face Forward!

The newsletter of
the FACES Alliance
in Atlanta

**Georgia Tech
Spelman
Morehouse
Emory**

**working together
to change the
face of the
science and
engineering
professoriate.**

Ethics Case Study (continued)

Deborah and Kathleen's principal obligation, in writing up their results for publication, is to describe what they have done and give the basis for their actions. They must therefore examine how they can meet this obligation within the context of the experiment they have done. Questions that need to be answered include: If the authors state in the paper that data have been rejected because of problems with the power supply, should the data points still be included in the published chart? Should statistical analyses be done that both include and exclude the questionable data? If conventions within their discipline allow for the use of statistical devices to eliminate outlying data points, how explicit do Deborah and Kathleen need to be in the published paper about the procedures they have followed? **How would you proceed?**

Calendar

- * March 8: **Academic leadership panel** featuring Gary May PhD, Jane Ammons PhD and Reginald DesRoches PhD, noon at Georgia Tech.
- * March 14: **Bioethics workshop** by Karama Neal PhD, 3pm at Spelman.
- * March 28-April 1: **National Society of Black Engineers** annual meeting. Columbus, OH.
- * April 15: **FACES Career Initiation Grant** applications due.
- * May 1: **FACES Postdoctoral Fellowship** applications due.
- * May 1: **NIH NRSA Individual Predoctoral Fellowships (F31)** to Promote Diversity in Health-Related Research applications due.
- * May 1: **NIH Minority Predoctoral Fellowship** applications due.
- * June 5: **Science writing seminar** by Jeffrey Donnell, noon at Emory.
- * July 17-19: **NSF Faculty Early Career Development (CAREER) Award** applications due.
- * September 1: **NIH Extramural New Loan Repayment Program** applications accepted.
- * September 15: **FACES Scholar** applications due.
- * October 11-14: **Society for the Advancement of Chicanos and Native Americans in Science** annual meeting. Kansas City, MO.
- * November 7-10: **Annual Biomedical Research Conference for Minority Scientists** meeting, Austin, TX.

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