

## **ERG is Teeming with MalleyCATS**

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In 2008, a handful of students working on research with Professor Jim Malley in ERG named their group the MalleyCATS. The name is fitting since they are in the home of the UNH WildCATS, work with **ERG faculty member Dr. Jim Malley**, and possess many of the resilient attributes of alley-cats. The group, now 17 strong ranges from rising first year students to graduate students, operates on a shoestring budget, but works together with the common goals of learning how to do research, how to work together, and how to mentor others. “We are given a lot of freedom in the design and the running of our experiments, but still get a lot of feedback and guidance with our research from Malley. Our research topics are really exciting and relevant to the real world.” (Harrison Roakes UNH '12) Perhaps most importantly, they are learning to never quit on research ideas they are passionate about even when nothing seems to be going right.

The MalleyCATS have involved 20 students to date including 10 members on campus at UNH for summer 2011 (Michaela Bogosh, RaeAnna Hughes, Cheryl Bentley, Ransom Richardson, Alex Rozycki, Harrison Roakes, KC Moran, Jihyon Im, Aidan Cecchetti and Rachael Kenny). The 2011 summer 'CATS are working on four projects: Evaluation of a pacific ocean floor intake system as a pretreatment to reduce biofouling in desalination systems, supported by Long Beach Water Department; Inactivation of Enterococcus species found in wastewaters and storm water overflows using UV disinfection, funded by CH2M Hill; Development of Innovative methods for Nitrogen removal, funded by several wastewater utilities throughout the US; and the development and testing of a point of entry water treatment system for small flows typical of schools in the Dominican Republic. “A lot of big institutions don’t have the research opportunities that ERG provides for us. I was able to find a group and research opportunities that I’m able to take ownership of and be proud to be a part of.” (Alex Rozycki, UNH '12)

Other MalleyCATS are on the road this summer. Senior MalleyCATS, Mark Gordon, is in the Netherlands performing his research on Suspended Ion Exchange (SIX). Allie Bowen and Megan Good are spending their summer as interns at consulting environmental engineering firms Woodward and Curran and Arcadis-Malcolm Pirnie, respectively. Allie and Megan will be returning in Fall 2011 to continue their research interests and work on the removal of pharmaceuticals and personal care products from water supplies using membrane techniques.

Keep up the good work MalleyCATS, you are making everyone at ERG and UNH proud.