

College of Science Board of Trustees Report

February 24-May 11, 2015

Students

UAH College of Science Student Accepted to Yale Physical Chemistry Graduate Program

Honors chemistry student Clayton Craft graduated summa cum laude and was admitted to the Physical Chemistry Graduate Program at Yale University

UAH College of Science Student Wins ACS Organic Chemistry Student of the Year

Undergraduate honors researcher Kelly Marie Steinberg was awarded the American Chemical Society organic student of the year.

UAH College of Science Students Win Research Horizons Day Competition

UAH Earth System Science Graduate students, **Susan Malaso Kotikot** and **Tony Cole**, won first and second place, respectively, in the College of Science Research Horizons Day poster contest.

UAH Student Places Second at Regional 3MT Competition

Biology graduate student Aleksandra Pivovarova, placed second at the Regional Three Minute Thesis (3MT[®]) Competition.

UAH Student Accepted into Mayo Clinic School of Medicine

Biology and Chemistry Honors student Maria Torres was accepted into the Mayo Clinic School of Medicine.

Faculty

UAH College of Science Professor Receives Funding

Chemistry Professor **Dr. John Gregory** received a NASA grant for \$1,375,000 and a \$375,000 Research Infrastructure Development grant for the Alabama Space Grant Consortium.

UAH Professor Helps Develop Educational App

Dr. Divya Chandrasenan, a visiting scholar from India, and UAH Atmospheric Science Assistant Professor **Dr. Udaysankar Nair** developed curriculum for the Public Environmental Education and Research App (PEERA), an app that can be used to document environmental problems and track land use changes.

UAH College of Science Professor Receives Funding

Dr. Jacob Heerikhuisen, Associate Professor in Space Science, received funding from the NSF for 5 additional years to support the CSPAR REU Program

Outreach

UAH College of Science Professor Conduct Teaching Lab

Chemistry Assistant Research Professor **Dr. Hanna McFeeters** participated in DNA Day at Rainbow Childcare Center

UAH College of Science Professor Runs Regional Chemistry Olympiad

Chemistry Associate Professor **Dr. Bernhard Vogler** coordinated the regional Chemistry Olympiad.

UAH College of Science Professor Conducts Educational Seminar

Dr. Gang Li, Associate Professor in the department of Space Science and CSPAR PI spoke to the public at the Huntsville Public Library on April 11, 2015 on the topic of General Relativity, which is the main scientific theme of the movie *Interstellar*.

UAH Math Department Hosts AMS Meeting

The 2015 Spring Southeastern Sectional Meeting of American Mathematical Society was held at the UAH campus on March 27-29, 2015.

Internal Awards

UAH College of Science Associate Professor Wins Teaching Award

Associate Professor of Chemistry **Dr. Robert McFeeters** received the UAH College of Science Faculty Teaching Excellence Award.

UAH College of Science Professor Granted Tenure

UAH Atmospheric Science professor, **Dr. Udaysankar Nair**, was promoted to the rank of Associate Professor and has been granted tenure effective in the new 2015-2016 school year.

UAH College of Science Professors Receives Mentor Award

UAH Atmospheric Science Assistant Professor **Dr. Robert Griffin** was selected as the recipient of the 2015 Research and Creative Activity Mentor Award.

UAH College of Science Professor Wins Research Excellence Award

Professor **Gang Li** of the Department of Space Science was selected for the Faculty Research Excellence Award in the College of Science.

College of Science Publications

Corrections to the Born repulsion term for energy and force in a sphere-plate colloidal system", **Jeffrey J. Weimer**, Lelon A.W. Sanderson, *Colloids Surf A*, 472(5), 124-5 (May 2015).

Current Methods for Analysis of Enzymatic Peptidyl-tRNA Hydrolysis. **H. McFeeters**, **R. L. McFeeters**, *Journal of Analytical and Bioanalytical Techniques*, 5(5), 2014.

Chemical composition, antifungal and antibacterial activities of essential oil from *Lallemantia royleana* (Benth. In Wall.) Benth. Javad Sharifi-Rad, Seyedeh Hadsan Hoseini-Alfatemi, Majid Sharifi-Rad, and **William N. Setzer**. *Journal of Food Safety*, 2015, 35, 19-25.

Combinations of ascaridole, carvacrol, and caryophyllene oxide against *Leishmania*. Jacinta Pastor, Marley García, Silvia Steinbauer, **William N. Setzer**, Ramón Scull, Lars Gille, and Lianet Monzote. *Acta Tropica*, 2015, 145, 31-38

A molecular docking study of phytochemical estrogen mimics from dietary herbal supplements. Chelsea N. Powers and **William N. Setzer**. *In Silico Pharmacology*, 2015, 3, 63 pp (DOI 10.1186/s40203-015-0008-z)

Composition and bioactivities of the leaf essential oil of *Ficus religiosa* Linn. Ambika Poudel, Prabodh Satyal, and **William N. Setzer**. *American Journal of Essential Oils and Natural Products*, 2015, 2(3), 16-17

Essential oil constituents of zira (*Bunium persicum* [Boiss.] B. Fedtsch.) from Tajikistan. Farukh S. Sharopov, Muhammadscho A. Kukaniev, Hanjing Zhang, and **William N. Setzer**. *American Journal of Essential Oils and Natural Products*, 2015, 2(3), 24-27

Essential oil composition of *Artemisia abyssinica* from three habitats in Yemen. Bhuwan K. Chhetri, Saeed S. Al-Sokari, **William N. Setzer**, and Nasser A. Awadh Ali. *American Journal of Essential Oils and Natural Products*, 2015, 2(3), 28-30.

Simultaneous Radio and EUV Imaging of a Multi-lane Coronal Type II Radio Burst, by S.W. Feng, G.H. Du, Y. Chen, X.L. Kong, **G. Li**, F. Guo, *Solar Phys*, March, 2015, DOI 10.1007/s11207-015-0673-4

The First Taste Of A Hot Channel In Interplanetary Space, H. Q. Song, J. Zhang, Y. Chen, X. Cheng, **G. Li**, and Y. M. Wang, *Astrophysical Journal*, 803, 96, 2015 April 20

Angular Distribution Of Solar Wind Magnetic Field Vector At 1 AU, F. Xu, **G. Li**, L. Zhao, Y. Zhang, **O. Khabarova**, B. Miao, and **J. le Roux**, *Astrophysical Journal*, 801, 58, 2015 March 1

A Kinetic Transport Theory for Particle Acceleration and Transport in Regions of Multiple Contracting and Reconnecting Inertial-scale Flux Ropes. **J.A. le Roux, G.P. Zank, G.M. Webb, and O. Khabarova.** *Astrophysical Journal*, Volume 801, Issue 2, article id. 112, 24 pp. (2015).

Latitudinal and Energy Dependence of Energetic Neutral Atom Spectral Indices Measured by the Interstellar Boundary Explorer. M.I. Desai et al. (including **G.P. Zank, J. Heerikhuisen, N.V. Pogorelov**, and former PhD student E. Zirnstien). *The Astrophysical Journal*, Volume 802, Issue 2, article id. 100, 7 pp. (2015).