24th Annual ACS Chemistry Open House & Science Exploration Gallery
at Texas A&M University

AMERICAN CHEMICAL SOCIETY NATIONAL CHEMISTRY WEEK & INTERNATIONAL YEAR OF CHEMISTRY CELEBRATION

October 22, 2011

Website: www.chem.tamu.edu/openhouse

Start your wonderful chemistry experience here in the foyer outside Room 100 CHEM at the Welcome Table staffed by Judy Ludwig and First Year Chemistry students. You should

- Pick up this schedule, (which you've already done!),
- a bag of chemistry goodies, with a fun magazine (Turn over for listing of all the goodies)
- Make a name tag “Your Name in Marble” – compliments of Mr. Thom Jose's Chemistry class at Blinn College.

There are THREE showings of The Chemistry Road Show featuring fires, explosions, weird polymers, super cold materials and other things to amaze you in Room 100 Chemistry at 10am, 12noon and 2pm (Dr. Jim Pennington). Highly recommended for all ages. Get your ticket for fun science door prizes as you enter Room 100. The drawing will immediately follow each show. Many of our demos & goodie bag items can be obtained at www.teachersource.com.

Winners for the Illustrated Poem Contest will be announced and receive prizes at 1:45 p.m. Rm 100

🌟 DEMOS, HANDS-ON ACTIVITIES & CHEM MOVIES 🌟

10:00am – 3:00pm in Chemistry's New Wing

Go outside, go down the stairs toward the 3 round brick fountains (called H2O fountain - it's a chemistry thing) and turn right (north). Follow the signs. Turn right at Ross St. The entrance into the new wing is on your right.

Tiffany Kinnibrugh will be helping to keep things running smoothly.

First Floor of New Wing:

- ROOM 2104 – Low-Temperature Physics Extravaganza at 11am and 1pm (Dr. Glenn Agnolet)
- ROOM 2102 “See, Touch and Think” Chemistry Demos (Chem 116 students, Jose Delgado, Amanda David)
- Foyer – Great Physics – Smoke Rings & Screaming Rods (Dr. James White), van de Graaff Generator (Dr. Lewis Ford), 3D Puzzles (Dr. Ed Fry), Lazy Susan (Dr. Alexey Belyanin)
- Inside Foyer – Brazos Valley Museum of Natural History, Our Chemistry Librarian (David Hubbard), Community Librarian (Bobbee Pennington), AIChE's Chemical Car (Chemical Engineering), plus Advancing Hispanics/Chicanos & Native Americans in Science (SACNAS), Society of Plastic Engineers, School of Veterinary Medicine
- outside by Foyer – Fun with Gook (Dr. Christian Hilty’s group)
- ROOM 2101 - Wonders of Biology (Dr. Ginger Carney’s group)
- ROOM 2109 – Create your own protein, DNA, or make your own chemicals using the computer: (Dr. Lisa M. Perez, Laboratory for Molecular Simulation - Recommended for 6th grade and up, but all are welcome.)
- ROOM 2109 (Conference Room)– Visualizing the Invisible using Schlieren Imaging (Dr. Simon North)
- In the hall – PLU – Chemistry Honor Society
- ROOM 2122 and outside - "Can you drop an egg without breaking it? plus other games (Student Engineer's Council)
- ROOM 2121: Chem Bytes – fun chemistry videos from the American Chemical Society!

Second Floor of New Wing: (Activities with this symbol are available on a walk-in basis)

- Science Activities "In the Hall": Hands-on demonstrations by the Chemistry research groups of Drs. Marcetta and Don Daresbourgm as well as Dr. John Gladysz
- Hands-On Polymer & Magnetism Activities plus and Nail Painting with Sunlight Sensitive Polish: Rooms 2213 and 2215. Dr. Kim Dunbar’s group.
- More fun with Student Engineer's Council: Rooms 2204 and 2206.
All tours will be run by TAMU undergraduate ACS Student Affiliate members
PLEASE DO NOT TOUR INDIVIDUALLY. ALL AGES WELCOME.

★ **LAB TOUR:** Meet your tour guide by the elevators on the first floor in the new Chemistry wing (where the demos are) to begin tours in groups of about 10 at 10:15am, 10:45am, 11:15am, 11:45am, 12:15pm, 12:45pm, 1:15pm, 1:45pm.

★ **Metal Shop for Chemists:** Room 2006. (Will Seward)
★ **Visualizing the NanoWorld:** Room 2001 (Dr. James Batteas’ Group)
★ **Organic Compounds from Marine Sponges, Bacteria, Plants and other Critters: A Treasure Trove of New Therapeutic Drugs and Tools for Cell Biology:** Room 210. (Dr. Daniel Romo’s Group with Dr. Omar Robles, The Natural Products LINCHPIN Laboratory, and The TAMU Undergraduate MiniPharma)

For safety reasons, all children under the age of 12 MUST be accompanied by an adult. Do not enter any lab unless directed to and, for your safety, please do not touch anything in the lab. Safety glasses will be provided and must be worn in the labs. Please return them to your guide when the tour or demonstration is complete.

Think CHEMISTRY every day and how it affects every aspect of our lives.
I hope you have a wonderful time today.

Sincerely, Dr. Wendy L. Keeney-Kennicutt,
Coordinator of National Chemistry Week, TAMU

1. "Celebrating Chemistry: Chemistry – Our Health, Our Future!" - a fun workbook
2. A wallet-sized and regular sized Periodic Table of the Elephants
4. A UV detecting bead bracelet - the UV sensitive beads contain a pigment which changes color when exposed to ultraviolet light from the sun or other UV sources. Take them outside to see what colors you got! You can observe the effects of UV light from the sun on different colored beads and at different times of day. Put different transparent filters or suntan lotion between the sun and the beads. Try eyeglasses and UV absorbing window film. Try comparing a car windshield with the side windows.
5. "Miracle Fish - the Fortune Teller" - how does the little red fish tell your fortune? Does it react to light? Heat? Moisture? What is the chemistry behind the fish?
6. a mini-glow stick – break it to see the light!
7. "Magic Top" - spin it and it will turn upside-down!
8. a sheet of goldenrod paper (not manufactured since 2008) – the dye in the paper is an acid-base indicator. See what happens when you spray it with glass cleaner with ammonia – a base. Will the original color return when dipped in lemon juice, vinegar or soda? Are the kitchen chemicals acids?

★ Ask for a patch at the Welcome Table – we have them for students

Kudos go to Jason's Deli for helping to provide refreshments for all our wonderful volunteers!

Thanks to the College of Science for its strong support!