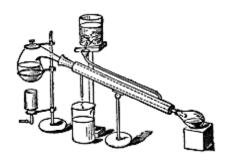


SOUTHWEST RETORT



SIXTY-FOURTH YEAR

JANUARY 2012

Published for the advancement of Chemists, Chemical Engineers and Chemistry in this area

published by

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TABLE OF CONTENTS
Fifty Years Ago4
41
ARTICLES Five Questions 12
Five Questions12
The Chemistry of Champagne6
Licorice
AROUND-THE-AREA 7-10
In Memoriam: Tony Ostroff7
UTA
DFW
Chirality 2012 Conference
U ARKANSAS NEW!
NE
Employment Listings3
Call for nominations11
DFW SECTION MEETING NOTICES:
January 201214
February 201216
March 201217
April 2012 Meeting-in-Miniature18
From the Editor
INDEX OF ADVERTISERS
ANA-LAB5
Huffman Laboratories3
Chirality 201219

Sponsor Members.....2

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EMPLOYMENT CLEARING HOUSE

The **RETORT** is including this new section free of charge for DFW Section members and those seeking employment in the area. Job applicants should send name, email, and phone, along with type of position and geographical area desired; employers may contact job applicants directly. If you have an opening, send your listing, including contact info for your company, to retort@acsdfw.org. Deadlines are the 7th of each month.



Seeking employment:

Laboratory technician full-time DFW area: Recent graduate with experience in chem, organic, and environmental chem labs looking for full time lab tech work in the DFW area. Takes and executes

instructions quickly, efficiently, and effectively.

Will Colbert, colbertw@gmail.com, 832-217-6975



FIFTY YEARS AGO IN *THE SOUTHWEST RETORT*

JANUARY 1962 contributed by Dr. Tom Strom

The January ACS tour speakers are **Dr. Norman Hackerman**, Vice President and Provost of the University of Texas (now UT-Austin), speaking on "Molecular Structure and Organic Corrosion Inhibitors," and **Dr. James R. Fair**, Monsanto Chem. Co. in St. Louis, speaking on "New Developments in Distillation Technology."

The ACS Southwest Regional Meeting for the next four years is as follows: 1962, Dallas; 1963, Houston; 1964, Shreveport; and 1965, Memphis. The Manufacturing Chemists' Association has announced nominations are now being accepted for six outstanding college chemistry teachers throughout the US and Canada.

T. S. Burkhalter from Texas
Instruments (TI), Past-Chairman of the
D-FW ACS Section, was elected Vice
President of the Physical Sciences
Section of the Texas Academy of
Science. Dr. Burkhalter attended the
ACS Regional Meeting in New
Orleans. Others attending from TI
were P. F. Kane, Rowland Johnson,
and Richard Ashmore.

Mrs. Joy Terry from Tarleton State College spoke to the juniors and seniors

at Weatherford High School on Dec. 8.

Faculty from North Texas State University (*now UNT*) attending the Welch Conference Dec. 4-6 in Houston were **Drs. Escue, Glaze, Thompson, and Schimelpfenig. Drs. Carrico, Truitt**, and **Glaze** also attended the Texas Academy of Science Meeting in Galveston.

Several Baylor chemistry faculty attended the local section ACS meeting held in College Station to hear tour speaker George H. Cady. They were John S. Belew, Leone H. Cockerell, Thomas C. Franklin, Charles E. Reeder, and Virgil S. Tweedie plus graduate students David Hoiness and Philip Hwang.

The membership committee of the University of Arkansas ACS Section reports that it has concluded a successful recruiting campaign with the addition of about 15 members, which presents an increase of 20% in total membership. **Dr. Paul Kuroda's** group, with support from NSF, has acquired a Reynolds Mass Spectrometer from Atomic Laboratories, Inc., Berkeley, CA.

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40 Z1 91.224	41 Nb 92,906	42 Mo 95.94	43 Tc (98)	44 Ru 101.07	45 R.		47 Ag 107.87			50 Sn 18.71	51 Sb 121.76	52 Te 127.60	53 I 126,90
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Toasting the Chemistry of Champagne

from the American Chemical Society



Just in time for those New Year's Eve toasts, which might include a farewell to the International Year of Chemistry, the ACS

has posted online a video on the chemistry of champagne. The latest addition to the award-winning Bytesize Science series from the American Chemical Society (ACS) is available at **www.BytesizeScience.com.**

Champagne, unlike other wines, undergoes a second fermentation in the bottle to trap carbon dioxide gas, which dissolves into the wine and forms the fabled bubbles in the bubbly. More than 600 different chemical compounds join carbon dioxide in champagne, each lending its own unique quality to the aroma and flavor of champagne.



But even with all that flavor, champagne would be just another white wine without those tiny bubbles. As the bubbles ascend the length of a glass in tiny trains, they drag along molecules of those 600 flavor and aroma substances. They literally explode out of the surface as the bubbles burst, tickling the nose and stimulating the senses.

Some accounts say that a French Benedictine monk named Dom Pierre Pérignon discovered champagne in the mid-1600s, and became namesake for the famous champagne cuvée, Dom Pérignon. Early champagne makers had a tough time with that second fermentation. Some bottles wound up with no bubbles at all, but others got too much carbon dioxide and exploded under the enormous pressure.

So what's the best way to pour a glass of bubbly and maximize the sensory experience?

For an answer, look at the study recently published in the *Journal of Agricultural and Food Chemistry* (On the Losses of Dissolved CO₂ during Champagne Serving, Liger-Belair *et al.*, *J. Agric. Food Chem.*, **2010**, *58* (15), pp 8768–8775). Pouring champagne on an angle retains up to twice as much carbon dioxide in the champagne when compared to pouring down the middle of the glass. Those additional bubbles carry out more of the hundreds of flavor compounds in champagne.

AROUND-THE-AREA



In Memorium: Tony Ostroff. Longtime ACS member Dr. Anton Gene "Tony" Ostroff died Dec. 28, 2011, at age 86. Tony Ostroff was born in

Moline, IL, on Nov. 6, 1925. He grew up in Silvis, IL, and attended East Moline High School. He joined the Army Air Force out of high school during World War II. He was an air crew member of the 15th Air Force, 461st Bomb Group and 767th Bomb Squadron stationed in Italy. Tony flew 19 missions as a nose gunner and received two Air Medals.

After his service, he attended Augustana College in Illinois, receiving a bachelor's degree in chemistry. He then received a teaching assistantship at SMU, where he obtained a master's degree in chemistry. He joined Mobil in Dallas, and in 1954 he married Nancy Crosby. He returned to graduate school, this time at the University of Iowa, where he received a Ph.D. in inorganic chemistry. He then came back to Mobil, working there a total of 32 years. He retired in 1984 as

Manager of the Analytical Services Group.

He authored a book on "Introduction to Oilfield Water Technology" and a wellreceived series of articles on "Understanding and Controlling Oilfield Corrosion."

After retirement, he briefly taught chemistry at Mountain View Community College and consulted on corrosion and oilfield water problems.

Tony was a 58-year member of ACS. He is survived by his wife Nancy and children Greg Ostroff and Ginny Johnson as well as grandchildren Tommy, Lauren, Andrew, Elizabeth, Katherine, and Kristin. His daughter Ellen Hooker preceded him in death. Burial took place Jan. 2 at the Dallas-Fort Worth National Cemetery. Your former editor, Tom Strom, worked in the same group at Mobil with Tony for a number of years and can testify that Tony was an outstanding chemist and an even finer person. He will be missed.

contributed by Dr. Tom Strom

Around the Area cont.

UTA Chemistry & Biochemistry Society Initiates Scholarship

In an amazing accomplishment for a student group, members of the UT-Arlington Chemistry and Biochemistry Society have made an initial \$10,000 contribution to the University to support a scholarship for future students. The group's goal is to raise a total of \$25,000 by 2016. This total will be then be matched through the Maverick Match Program to fund the new scholarship. It will be given annually to the UTA chemistry and biochemistry undergraduate student who best exemplifies excellence in his or her commitment to and performance in the chemical sciences. Kudos go to this student group and their officers, including Catrina Campbell, Chris Parikh, Merin Philip, and Andy Seal, for tackling such an ambitious project, one that will benefit future students.

UTA

The Office of Graduate Studies of UT-Arlington and the Institute of Chemistry-Ceylon have organized two international symposia in Sri Lanka:

the First Annual International Symposium on Drug Discovery and the Felicitation Symposium for Professor J. N. Oleap Fernando, held in Jan in Columbo, in Central Sri Lanka. Among the international group of speakers were Drs. Roshan Perera, Kevin Schug, Frank Foss, and Brad Pierce of UT-Arlington. Dr. Perera and Dr. Nirmali Wickramarathne were in charge of planning and preparation for the symposia. Dr. Perera presented his talk on site, while Drs. Schug, Foss, and Pierce participated via the web through Adobe Connect.

DFW

Kirby Drake has been named as a partner in her law firm, Klemchuk Kubasta LLC. She graduated from Duke University with a BS in chemistry



and received her Juris
Doctor from Wake
Forest University. She
is the Treasurer of the
DFW Section of the
ACS and business

manager of the Southwest Retort.

DFW cont.

IF YOU HAVEN'T SIGNED UP, DO IT NOW!

Judges needed for Regional Science and Engineering Fair

Judges are needed for the 2012 Beal Bank Dallas Regional Science and Engineering Fair on Saturday, February 25, 2012, in Fair Park, Dallas. The fair is both a high quality competition and an exhibition for the best middle and high school research projects in the north Texas region; nearly one thousand exhibitors are expected. To get more information, check the judges' page at **drsef.org.** If you cannot find the answer there, email specific questions to **scifair@physics.smu.edu.**

CHIRALITY CONFERENCE



Since 1980, the leading international conference on all

aspects of chirality (chemical, pharmaceutical, physical and biological) has alternated among the U.S., Europe and Asia. In June 2012, this symposium, the 24th International Symposium on Chiral Discrimination, will take place in Fort Worth (www.chirality2012.com). Hosting this prestigious meeting is a great honor; it was facilitated by two of our local chemists, Robert A. Welch Professor Daniel Armstrong and

Associate Professor *Kevin Schug* (handy sorts, wouldn't you say...?).



Among the plenary lecturers is Nobel Laureate, *E. J. Corey*, who will have a book signing as well. Past ACS President *Ronald Breslow* will speak on the origins of chirality in our solar system.

The *International Chirality Medal* will be awarded to a distinguished scientist, who will give an address (past winners include: Vladimer Prelog, Koji Nakanishi, Barry Sharpless, Kurt Mislow, Meir Lahav and Ryoji Noyori, among others).

Awards will be presented for the best posters in all areas of research involving chirality.

A special session on chiral drug development in the pharmaceutical industry will be featured. Also, the pharmaceutical industry, which is highly dependent on separations, synthesis and all forms of spectroscopy, will be holding a job/employment forum.

Short courses will be offered on: Enantiomeric Separations, Spectroscopic Methods for Determining Absolute Configuration, and Chiral NMR Shift Reagents, Mechanism and Use.

The social program will include a rodeo (Saturday night), the conference dinner at Billy Bob's (the world's largest



Honky Tonk), a Texas Rangers baseball game (Wednesday night), visits to the Kimbell

Museum (home to the only Michelangelo painting in the Western Hemisphere) and the Amon Carter



Museum of American Art. Of course, Sundance Square in

Fort Worth is a great social hub where there is an eclectic mix of restaurants, comedy clubs, nightclubs and more, all within walking distance.

University of Arkansas

Distinguished Professor Emeritus *Lothar Schäfer* was featured on Deepak Chopra Radio Nov. 22. The segment "Quantum Reality and Cosmic Consciousness" focused on the revolution and world view of physics caused by quantum phenomenon.

Research from the *Heyes* group and colleagues from McGill University "Probing the 'Dark' Fraction of Core-Shell Quantum Dots by Ensemble and Single Particle pH-Dependent Spectroscopy," was published in the journal ACS Nano (N. Durisic, A. G. Godin, D. Walters, P. Grutter, P. W. Wiseman, and C. D. Heyes. ACSNano, (2011), 5, 9062-9073).

Research by the Zheng lab,
"Intermolecular [3+2] Cycloaddition
of Cyclopropylamines with Olefins by
Visible-Light Photocatalysis," authored
by Soumitra Maity, Mingzhao Zhu,
Ryan Spencer Shinabery and Nan
Zheng, has been accepted for
publication by Angewandte Chemie.

Colin Heyes will present a seminar, "Single Molecule Spectroscopy of Nanomaterial and Biomolecules: To the Average and Beyond...," Dec. 1 at The University of The Ozarks.

Nan Zheng and graduate student

Mack Clements presented "The Use of Visible Light Photocatalysis for Amine Synthesis" at Henderson State

University, Oct. 2011.



NOMINATIONS STILL NEEDED!

Doherty and Schulz Awards:

Nominations are invited for the 2012 Wilfred T. Doherty and Werner Schulz awards. Nomination forms are

available online at acsdfw.org. This year's chair is Dr. Claire Bambrough, Brookhaven College, (972)-860-4214 (email cbambrough@dcccd.edu).

Nominations are due by April 15.

Each nomination should contain a cover letter highlighting the nominee's accomplishments; seconding letters may accompany nominations.

Nominations remain active for five years but should be updated annually.

The **Doherty Award** is given for excellence in chemical research or chemistry teaching, meritorious service to ACS, establishment of a new chemical industry, solution of pollution problems, and advances in curative or preventive chemotherapy. Nominees may come from industry, academia, government, or small business. The nominee should be a resident member in the area served by the DFW Section, and the work should have been done here. The award is \$1500 and an engraved plaque. A photo of the Doherty Award winner will be displayed permanently in the Gallery of Doherty Award winners, Berkner Hall, UT-Dallas.

The **Schulz Award** is given to high school chemistry teachers, who, like the late Dr. Werner Schulz, bring that something extra to the teaching of chemistry. The nominee and/or nominator need not be ACS members. Nominees should show excellence in chemistry teaching as demonstrated by testimonials from students and fellow teachers, results in student competitions, and diligence in updating and expanding scientific/teaching credentials. A photo of the Schulz Award winner will be displayed for one month at the Science Place in Dallas, and then be displayed permanently in the Gallery of Schulz Award winners, Science Bldg., Tarleton State University. A traveling plaque stays at the winner's high school for the year of the award. Winners will normally receive their awards and give their lectures at fall meetings of the section.

Remember, a continuous flow of nominations is needed to maintain the quality of awards!

FIVE QUESTIONS FOR......

We hope you enjoy this new SW Retort Section, "5 Questions For...," in which local section members will answer 5 questions designed to give us a glimpse into their experiences and careers in the sciences. To volunteer to be interviewed, e-mail to retort@acsdfw.org.

Our first volunteer is **Dr. Mary E. Anderson**, Associate Professor of Chemistry and Biochemistry at Texas Women's University. ACS Activities: Alternate Councilor of the DFW Local Section, Past Section Chair

1) How old were you when you realized you wanted to be a scientist?



When I was about 10, I got one of those chemistry sets and had fun; most of what was in it would

probably not be sold today!

2) What event first triggered your interest in science?

I did not know that I would be a scientist until college. At Hollins College, I had a professor who had been on the Manhattan Project, Ralph Steinhardt; his excitement about experiments had a big influence on me.

3) What's your favorite thing about chemistry?

What I love about Chemistry: experiments-asking questions and designing experiments to answer them,

and traveling the world talking science.

4) Something you don't like?

What I do not like: paperwork, and more paperwork--so much is just a waste of time. Second, people who treat you differently because you are a chemist, or because you are a woman chemist.

5) Who is your science hero or heroine? and why?

One: Maude Menton, who co-authored work on the Michaelis-Menton equation for enzyme kinetics (about 1910);



Two: All of the little-known scientists who do experiments and seek answers to questions. They are the ones who make new products, design new drugsthey change the world!

Thank you, Dr. Anderson, for your interesting remarks!

Dried licorice root fights the bacteria that cause tooth decay and gum disease

Scientists are reporting identification of two substances in licorice — used extensively in Chinese traditional medicine — that kill the major bacteria responsible for tooth decay and gum disease, the leading causes of tooth loss in children and adults.

In a study in the *Journal of Natural Products*, they say that these substances could have a role in treating and preventing tooth decay and gum disease ("Isoflavonoids and Coumarins from Glycyrrhiza uralensis: Antibacterial Activity against Oral Pathogens and Conversion of Isoflavans into Isoflavan-Quinones during Purification, from the *Journal of Natural Products*, Stefan Gafner et al., 2011, 74 (12), pp 2514–251).

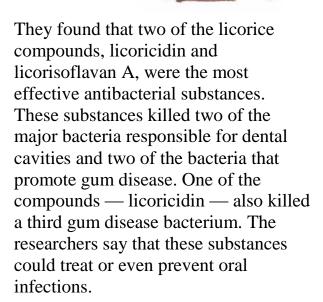


Stefan Gafner and colleagues explain that the dried root of the licorice plant is a common treatment in Chinese traditional medicine, especially as a way to enhance the

activity of other herbal ingredients or as a flavoring. Despite the popularity of licorice candy in the U.S., licorice root has been replaced in domestic candy with anise oil, which has a similar flavor. Traditional medical practitioners use dried licorice root to treat various

ailments, such as respiratory and digestive problems, but few modern scientific studies address whether licorice really works. (Consumers should check with their health care provider before taking licorice root because it can have undesirable effects and interactions with prescription drugs.) To test whether the sweet root could combat the bacteria that cause gum disease and cavities, the

researchers took a closer look at various substances in licorice.







January 2012 DFW ACS Meeting

MEET DFW'S NEW YOUNG INVESTIGATORS

Learn about exciting research in the DFW Section

Saturday, January 28, 2012, 9 A.M. to 2 P.M. Sid Richardson Building, Texas Christian University, Fort Worth, Texas

Updates and details on registration, directions, and parking will be posted at http://faculty.smu.edu/pwisian/Jan2012.htm

Speakers

Frank W. Foss, UTA
Peter Kroll, UTA
John MacMillan, UTSW
Rob Petros, UNT
Rosham Perera, UTA
Brad Pierce, UTA
Youngha Rhu, TCU
Mihaela C. Stefan, UTD
Justin Youngblood, UNT
Jie Zheng, UTD

POSTDOCTORAL RESEARCH ASSOCIATES

All postdocs from the DFW section are invited to present a poster on their current research from noon to 2:00 or 3:00 pm. This is an excellent opportunity to network in the local section, to meet local academic and industry leaders, and/or develop collaborative research projects. Please send your name, email address, a descriptive title, authors, and affiliation to Patty Wisian-Neilson at wisian@smu.edu by Tuesday, January 24, 2012. Posters will be pinned to 2 x 6 foot poster boards.

January DFW ACS Meeting cont.

PROGRAM: Meet DFW's New Young Investigators Saturday, January 28, 2012

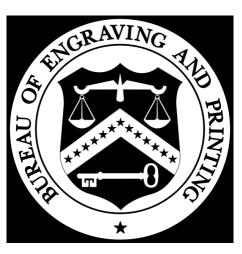
Sid Richardson Science Building, Texas Christian University, Fort Worth, Texas

8:55 A.M.	Opening Remarks							
9:00 A.M.	Frank W. Foss, UTA Biomimetic Catalysis: Mechanism of Nucleophilic Flavin Oxidations							
9:20 A.M.	Brad S. Pierce , UTA TBA							
9:40 A.M.	Jie Zheng, UTD Synthesis of Marine Natural Products							
10:00 A.M.	John B. MacMillan, UT Southwestern An Integrated Chemical and Genetic Approach to Discovery of Microbial Natural Products and their Mechanism of Action							
10:20 A.M.	Break							
10:35 A.M.	Justin Youngblood, UNT TBA							
10:55 A.M.	Youngha Ryu, TCU Context-dependent N-terminal Acetylation of Recombinant Proteins in E. coli							
11:15 A.M	Rob Petros, UNT TBA							
11:35 A.M.	Roshan Perera, UTA Bioengineering of Monooxygenases: Implications for Hydrocarbon Oxidation							
11:55 A.M	Mihaela Iovu Stefan, UTD Synthesis and Self-Assembly of Amphiphilic Aliphatic Polyesters							
12:15 P.M.	Peter Kroll, UTA Li Insertion in SiCO Ceramics: Computational Explorations of Favorable Anode Materials							
12:35 P.M.	Lunch and Posters by Postdoctoral Researchers							

February 2012 DFW ACS Meeting

US BUREAU OF ENGRAVING AND PRINTING

Fort Worth Western Currency Facility



Carol Riggs from the US Bureau of Engraving and Printing will present to us the process of printing US currency, as well as the history of the Fort Worth Western Currency Facility.

Time and place (somewhere in Fort Worth) to be announced via email and at acsdfw.org

Contributors wanted!

on technical topics, scientific and opinion papers, as well as news items and announcements.
Submit to retort@acsdfw.org

The **RETORT** is seeking a **COPY EDITOR**

Experience in newsletter construction and Word preferred

Email retort@acsdfw.org



March 2012 DFW ACS Meeting presents

INAUGURAL INDUSTRY AND SMALL BUSINESS MEETING

Saturday, March 24th, 2012

John G. Mahler Building's Great Hall, Dallas Baptist University

!! We are looking for companies interested in presenting via an oral presentation or sponsoring a table !!

Meeting Objectives:

- 1) Provide a platform for industry in the North Texas region to share what they are doing and/or the products that they provide.
- 2) Spur on collaboration with each other and/or academia in the area.
- 3) Provide a platform for current students (post-docs, graduates, and undergraduates) to see what companies are in the area and to begin networking for potential jobs.
- 4) Though it will not be a job fair, the networking aspects of it will certainly help current members in the section who are unemployed or about to enter the job market, while simultaneously helping our local companies find strong competent potential employees loyal to North Texas.
- 5) Provide a potential fund-raising activity for the local section to continue offering chemistry scholarships, awarding excellent high school teachers and professional chemists, and sponsoring chemistry oriented activities such as this year's National Chemistry Week activities at the Fort Worth Museum of Science and History, where over 3,000 people participated in chemistry demonstrations put on by local universities in North Texas.

March 2012 Meeting cont.

From our 2012 Section Chair, Aaron Fletcher:

This year's meeting is the inaugural Industry meeting, and I would love for you to be a part of it. The meeting will be on Saturday, March 24th, at Dallas Baptist University, which is conveniently located between Dallas and Fort Worth.

I would like to invite you to present your company and its services/products via a 25 minute presentation with time for Q&A. It is my goal to have 5-10 companies present. We will also have a breakout session over lunch where sandwiches will be provided, and companies can have a table to present their services and products and allow for one-on-one conversations with our members. I hope to have 10-20 companies sponsor a table.

I encourage you and your company to help make this a wonderful meeting that provides a symbiotic relationship between you, your company, and all of our local ACS members. If you can be a part of our Industry and Small Business Meeting, please email me back at <u>aaronf@dbu.edu</u> or call at 214-333-5519. We are limited to only 10 oral presentations, so reserve your spot now.

Aaron Fletcher, PhD

2012 Chair DFW Section

anon Altily -

@@@@@@@@@

Mark it on your calendars...

Meeting in Miniature University of Dallas April 21, 2012





First Circular and Call for Papers



Ft. Worth, TX

June 10th - 13th 2012

Plenary Lecture by Prof. E.J. Corey, Harvard University

1990 Nobel Laureate in Chemistry on Enantioselective Chemical Synthesis

Plenary Lecture by Prof. Ron Breslow, Columbia University

National Academy of Science Member on Origin of Chirality in Life

International Chirality Medal Award Presentation and Address

Nominations are now being accepted

Presentations and Discussion Session on the Route to Commercialization of Chiral Drug Compounds

Full Scientific & Social Program, Student & Young Investigator Sessions, Short Courses, Vendor Exhibitions,

Job Fair, Poster Symposium & Awards, Book Signing

oin us for the 24th International Symposium on Chiral Discrimination in history Ft. Worth, TX, Gateway to the West.

ee the conference website for more details on the extraordinary

scientific and social program-planned for scientists interested in all

spects of chirality

Conference Organizers:

Prof. Daniel W. Armstrong, Professor and Robert A. Welch Chair Prof. Kevin A. Schug, Associate Professor

On-Line Registration and Abstract Submission open January 2, 2012

www.chirality2012.com

Or e-mail us at: info@chirality2012.cφm

From the editor:

In November, I mentioned that the RETORT had been placed on the web site *issuu.com*, an online magazine site. Right now it's free, *but* the site gets to put ads and other publications on the page with us; there is a column on the right hand side of the page which displays other publications. However, they are all *chemistry***related** publications! I was flicking through the list and found the absolutely coolest thing: *The Golden Book of Chemistry Experiments* by Robert Brent, published in 1960 by Golden Press (http://issuu.com/torben/docs/tgbce). There's lots of other great stuff: study guides, ACS publications, experimental setups. Check it out.

We're going to get our own page soon, but it is interesting looking at the other chemistry publications. Another nice thing about issuu.com is that you can subscribe to your publication; if you put in your email (right next to the RETORT on the site), you will automatically get the RETORT when we post it. (In order to subscribe, download, or print, you need to register with issuu.com; it's free and you can opt out of extraneous emails.)

The RETORT is still and always will be available on the DFW section's website, acsdfw.org. On that site, under SW Retort, you can access a pdf (just click on the name of the month), a flip-page PC version, and a flip-page MAC version, all of which are downloadable and printable.



In my never-ending quest for appropriate clip art, I looked for a photo of an old chemistry set (page 12). It took quite a while before I found one without a boy on the box cover or book—no surprise…it was dated 1958. Like Mary, I asked for a chemistry set at age 11, but was told by my parents that it was a toy for boys...HA! See what happened?! I did find this photo, on the ACS website....an

Bed regards, indicator of times gone by and changing attitudes. Things do change!

http://pubs.acs.org/cen/newscripts/86/8620newscripts.html