

# American Chemical Society – Kalamazoo Local Section Newsletter

October 4, 2011

Vol. 1 - Issue 6

## Comments from the Chair

Doug Williams

Many of you know Dr. Lydia Hines, who has represented the Kalamazoo Local Section at national level as our Councilor for 27 years. She has served previously as our Section Chair and has been our primary coordinator over the last 25 years for many school programs and public outreach activities such as National Chemistry Week, Chemistry Day and Chemists Celebrating Earth Day. Fewer of you might be aware that Lydia has been a member of the ACS Great Lakes Region Steering Committee since 1984 and supported the Kalamazoo Section's sponsorship of regional ACS meetings in 1984 (as general chair), 1994 and 2001. For this work, Lydia has been selected as the 2011 recipient of the E. Ann Nalley Great Lakes Region Award for Volunteer Service. This distinguished honor will be presented to Lydia at the Awards Banquet on October 20 during the Midwest/Great Lakes Regional Meeting. Please congratulate Lydia on this achievement and plan to celebrate with her if you are going to the meeting in St. Louis.

Our fall program is in full swing (see below). Watch your email for election announcements in mid-October with internet voting instructions. We are still seeking nominations for a Chair-elect to join Elke Schoffers and me in our 2012 triumvirate. If you might be interested (and you should be), please contact one of us to discuss.

Thank you to all who registered for the Chemistry of Chocolate presentation on Sep 28. We had over 60 guests hear our speaker and taste chocolates. Check our [web site](#) for photos and a summary of our audience flavor scores for Hershey's® Kisses. I encourage all available members to get involved in Chemistry Day on October 15, one of our most recognizable annual events. Read below for first announcement of our upcoming SciMix at Bell's Eccentric Café in November. As always, see our Web site for the latest news on Local Section activities and news.

### KACS website:

<http://www.wmich.edu/acs/>

Do you have questions, comments, or would like to contribute to this newsletter? Send an email to:

[ACSkzoo@gmail.com](mailto:ACSkzoo@gmail.com)



## 2011 KACS Executive Officers

### Chairperson

Dr. Doug Williams, Kalsec, Inc.  
[DWilliams@kalsec.com](mailto:DWilliams@kalsec.com)

### Past-Chairperson

Dr. Susan Stapleton, WMU – Chemistry  
[susan.stapleton@wmich.edu](mailto:susan.stapleton@wmich.edu)

### Chairperson-Elect

Dr. Elke Schoffers, WMU – Chemistry  
[elke.schoffers@wmich.edu](mailto:elke.schoffers@wmich.edu)

### Secretary

Carl Stachew  
[cstachew@yahoo.com](mailto:cstachew@yahoo.com)

### Treasurer

Dr. John Miller, WMU – Chemistry  
[john.b.miller@wmich.edu](mailto:john.b.miller@wmich.edu)

### Councilor

Dr. Lydia E. M. Hines, WMU – Chemistry  
[lemhwgh@gmail.com](mailto:lemhwgh@gmail.com)

### Alternate Councilor

Mr. Michael Kiella  
[mike.kiella@charter.net](mailto:mike.kiella@charter.net)

## Upcoming events at a glance (Sep - Oct 2011)

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- **Oct 15** – *Chemistry Day*,  
Kalamazoo Valley Museum,  
12:00 noon – 4:00 p.m.

- **Oct 19-22** – Midwest/Great  
Lakes Joint Regional Meeting,  
St. Louis, MO

- **Nov 1** – KACS SciMix Event:  
"Sustainable Science, Recycle  
a Poster", 5-9 pm, Bell's  
Eccentric Café

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Do you have an event  
that you would like to  
have listed in this  
newsletter? Send an  
email to:

[ACSkzoo@gmail.com](mailto:ACSkzoo@gmail.com)

## Announcements

### SciMix Poster Session:

#### "Sustainable Science - Recycle a Poster"

John Wendt

A SciMix poster event will be taking place on  
Tuesday, November 1<sup>st</sup>, 5-9 pm, Bell's Eccentric  
Café. Appetizers and refreshment will be provided.

The objective is to share research work presented in  
a poster media. Posters can be new or recycled  
from a previous event (e.g. ACS national or regional  
meetings, etc).

**All local chemists, from all areas of chemistry**  
(e.g. physical, inorganic, organic, medicinal,  
biochemistry and analytical such as mass  
spectrometry and chromatography, etc), **are invited  
to the SciMix.**

This event, sponsored by Pfizer Animal Health, is  
open to scientists from academia and commercial  
companies.

Poster presenters should email John Wendt  
([john.a.wendt@pfizer.com](mailto:john.a.wendt@pfizer.com)) for more information.

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### Fall 2011 ACS National Meeting Denver

David Bolliet

Members can find a summary from the Denver Fall  
2011 ACS National Meeting, written by our Local  
Section Councilor, Lydia Hines, by visiting our  
[website](#).

# Announcements

## Project SEED Student Spends Summer Working in Chemistry Laboratory at WMU

Don Schreiber

This summer Kalamazoo Central High School graduate, Amarachi Nnebedum, spent her summer working in the lab of Dr. Shreine Obare at Western Michigan University. She was supported by the ACS Project SEED (Summer Educational Experience for the Disadvantaged) Program. The program pays High Schools students a stipend to work in a chemistry lab. The Kalamazoo Section of the American Chemical Society has participated in Project SEED for the last twenty years. This year's program concluded with a poster session and reception held on the morning of August 10, in the Haenicke Hall Atrium on the Campus of Western Michigan University. Amarachi's poster was entitled "Development of an Optical Sensor for the Detection of Arsenic Ions. Project SEED is supported on a matching funds basis. A portion of the stipends must be raised locally.

Companies or individuals interested in donating to or want more information about the local Project SEED Program should contact: Dr. Donald Schreiber (Department of Chemistry, Western Michigan University, 1903 W. Michigan Ave., Kalamazoo, MI 49008. Tel: (269) 387-2856, FAX: (269) 387-2909). Email: [donald.schreiber@wmich.edu](mailto:donald.schreiber@wmich.edu)

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## Chemistry Alumnus Honored at WMU

Don Schreiber

On Friday October 7th at 2:30 PM, Western Michigan University's Department of Chemistry will honor its 2011 Outstanding Alumnus, **David Ansel**. He will receive the award at a ceremony in the lobby of the Chemistry Building followed by a reception. Both the ceremony and reception are open to the public.

David Ansel, a member of the American Chemical Society, is a 1974 graduate of the Chemistry Department. He went on to get his MS degree in chemistry at Colorado State University in 1980. After graduating from Colorado State he went to work for Wacker Chemical Corporation in Adrian Michigan, where he retired earlier this year. At Wacker, Ansel worked in technical support in their silicone technology area. David is not the first Ansel to be honored by WMU, his father James, a 1935 graduate in education, received an alumni award from the College of Education in 1999. In addition to being a graduate his father taught at WMU for 26 years. David will also be honored by the College of Arts and Sciences and the University latter in the day.

# National Chemistry Week

## Gearing up! Please join the FUN!

Lydia Hines

NCW will be celebrated **October 16-22** this year, and its **theme**, as part of the 4<sup>th</sup> quarter of the International Year of Chemistry (IYC), is “**Chemistry – Our Health, Our Future**”. By far our largest and most extensive annual outreach to the community is our **Chemistry Day at the Kalamazoo Valley Museum** where our own members (YOU and I) and friends spend 4 hours on a Saturday afternoon – this year **October 15 from 12 noon to 4 p.m.** – presenting chemistry–related hands-on activities and the joy of chemistry’s pervasiveness in ALL that we eat, drink, do, wear, play with, and so much more. Youngsters and their parents who come to visit the Museum will learn about chemistry as well as receive materials to take home and read, do and share with their parents and teachers. The first plea in the August Newsletter and e-mails distributed to past volunteers have resulted in commitments from 30 individuals to present 16 activities. The invaluable cooperation of Annette Hoppenworth at the Kalamazoo Valley Museum continues to assure the success of this outreach event, and her commitment as we approach this 25<sup>th</sup> celebration continues unabated. Though there still is time to express your interest, time is of the essence for good planning to occur. I would love to hear of your willingness to participate; so please contact me, Lydia E. M. Hines at [lemhwgh@gmail.com](mailto:lemhwgh@gmail.com) or 269-375-7349, **ASAP**. I will forward you the particular information necessary at that time. Thank you very much.

### For a re-cap of NCW-related initiatives so far:

- information has been e-mailed to our Section’s (Allegan, Kalamazoo, Van Buren counties) High School and Middle School teachers concerning our US-wide Illustrated Poster contest, related to this year’s theme, for students in grades K-12; submissions will be accepted if received at my address, 5596 Parkview Avenue, Kalamazoo, MI, by October 14.
- (b) hygiene-product drives will be conducted through our College/University Student Member Clubs during NCW, with the objective of providing all collected items to local homeless shelters/food pantries
- (c) we continue our participation in the drive to collect “pennies” for [Pennies for PUR Water](#)®, a program in which ACS and Procter & Gamble are working together to provide water-purifying packets (at 3.5 cents per packet, with each packet safely cleaning 2.5 gal of water) through the Children’s Safe Drinking Water program (<http://www.csdw.org/csdw/home.shtml>); the American Chemical Society’s goal, as our “heart” contribution for IYC2011, is to gather enough funds to enable the provision of 1.5 million gallons of clean water.

# Announcements

## Middle School Curriculum

Lydia Hines

For members with their own, or friends', Middle School children or grandchildren, we would like to encourage you to bring the following free online middle school chemistry curriculum unit, [www.middleschoolchemistry.com](http://www.middleschoolchemistry.com) to the teacher's attention.

The curriculum offers fully developed lesson plans to teach chemistry concepts at the middle school level; it was developed by the American Chemical Society's Office of K-8 Science in its Education Division in response to the National Academy of Sciences' newly drafted national science education standards.

## Rube Goldberg Machine Contest

David Bolliet

Rube Goldberg Machine (RGM). We have all seen these complex contraptions assembled together and that, once started, will go through a series of elaborate steps creating a seemingly endless chain reaction resulting in performing a simple task.

At the 2011 Theta Tau National Rube Goldberg Machine Contest that took place on March 26 at Purdue University, West Lafayette, IN, the winning team, University of Wisconsin, Stout, created a RGM with 135 steps to water a plant. The machine took 9 months and 2,000 hours to build.

Here's [the video of the RGM in action](#).

## Sudoku Challenge – August Winners

We received two winning entries to the August Sudoku challenge. Congratulations to Jane Guido and Donna Seibert.

They will each receive a \$5 gift certificate to **Studio Grill**, located at 312 W. Michigan Avenue in downtown Kalamazoo.

Below is the solved puzzle.

Up to the task for another Sudoku challenge? Go to page 6 of this newsletter for your chance to win a prize...

Difficulty: MEDIUM

5	9	8	6	2	3	4	7	1
4	6	1	5	9	7	8	3	2
7	3	2	4	8	1	9	6	5
9	1	7	3	5	8	6	2	4
6	8	4	7	1	2	3	5	9
3	2	5	9	4	6	7	1	8
2	7	9	8	3	5	1	4	6
8	5	3	1	6	4	2	9	7
1	4	6	2	7	9	5	8	3

Solution: Newsletter, 2011, 1(5)

# Sudoku challenge

## Solve the puzzle, win a prize!

Here's how to win a prize:

- 1) Solve this Sudoku puzzle on your own.  
(please, **do not use** an online Sudoku solver)
- 2) Email the solved puzzle to [ACSkzoo@gmail.com](mailto:ACSkzoo@gmail.com)
- 3) Submission deadline is October 15, 2011.
- 4) Prizes will be awarded to the first 3 correct entries (entries must be from Kalamazoo Local Section ACS members who have not won a prize in the most recent newsletter).
- 5) Winners and solution will be announced in the next newsletter.

## Have fun!

<u>First Name:</u>	<u>Last Name:</u>
<u>Email address:</u>	

Difficulty: **MEDIUM**

			5		3			1
		5	2		9	3		
	7	2					4	5
				5			7	8
			7	1	6			
7	5			3				
5	9					4	1	
		7	8		4	6		
2			1		5			

**New to Sudoku?** Click on the [link](#) to learn the few basic rules of the game.