

American Chemical Society's Project (SEED) Summer Educational Experience Disadvantaged Students

Project SEED was established in 1968, nationally, (by the American Chemical Society) to assist high school students expand their career selections with regards to possibly choosing chemistry related professions, which traditionally does not have a high number of minority professionals. During the 39 year period since the beginning of Project SEED, more than 6,000 students have participated in Summer Research and have identify this as a positive experience. Within the Detroit program under of committee chair, Keith Williams since 1992, over 45 students, primarily from the Detroit Public School, have gained the SEED experience. Many have gone on to major in chemistry related fields in college as a result of Project SEED.

The structure of the program offered by the Detroit Section of the American Chemical Society includes:

1. Student Selection and stipend; at level (I) - \$2,500 or level (II) - \$3,000. In many cases, the corporate donation is matched by ACS national. This year's financial supporters include:
 - ACS Local
 - ACS National
 - BASF (Southfield) Fran Heicklen
 - Henkel Corporation: Jim Landis
 - NSF-NIRT Grant: Ted Goodson
2. Students are given an advance research assignment within a selected preceptor's lab.
3. Student required research paper
3. Student skills developmental workshops

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4. College Scholarships and Admissions counseling
5. Related field trips
6. Book scholarship (BASf)
7. Student mentoring students (Served as Student Assistants within the WSU Upward Bound Science courses and College of Engineering Summer High School Institute)

This program has been well received by students, parents, teachers and administrators within the target area of the Detroit Public School System (DPS), nearly 50 students applied. This year, the committee placed five students into advanced chemistry research laboratories. In the past, students have been involved in advance research at the Ford Motor Science Laboratory, University of Michigan-Ann Arbor & Dearborn, University of Detroit-Mercy and Wayne State University.

It is truly a synergy of the corporate sponsors, the interest by the students and the preceptors that makes the whole program run smoothly. Next year, we will be looking for students provided those from this year do not return. Under the new structure of the program participants have two years of eligibility provided they are not in college. The local program's application period is mid-April to late-May.

Highlights of this year's program, see below.

1. Attendance to a research symposium at Wayne State University
2. Field Trip to University of Michigan Ann Arbor
3. Attendance to Student Day at Michigan State University
4. Dual Enrollment presentations at WCCCD

Lastly, the ACS Detroit Section Project SEED Committee would like to express its gratitude to Yolanda Watts chair of the section's Minority Affairs Committee, Felicia Benson (DPS) for coordinating all aspect of the Project SEED activities before and during the program, as well as the Detroit Professional chapter of NOBCCHE.

Please see page 3 for a summary of the students in this year's program.

Submitted by Keith Williams, Project SEED Director for Detroit Section.

This Year's Project SEED Students

Name/Preceptor Status: Rank	Research title	Location
Rashid Echols Claudio Verani Status: Senior Detroit's M.L. King, Jr High School	Synthesis And Analysis of Metallodrugs and Metallosurfactants	Wayne State University
Sheniece Greene David Benson Status: Senior Cass Technical High School	The Purification of the Maltose Binding Protein (MBP)	Wayne State University
Shuntaye McKinney Ted Goodson Status: Senior at Detroit's Mumford High School	My Summer Experience	University of Michigan-AA
NaKisha Rutledge Howard Matthew Status: Junior at Detroit's Renaissance High School	Development of Cytosan Fiber Scaffolds for Culture of Valvular Interstitial Cells	Wayne State University
Tenira Townsend David Bartley Status: Freshman in Pre-pharmacy at Oakland University	Synthesis of Prodrug Esters of Anti-folate Chemotherapeutic Agents	University of Detroit-Mercy

BASF Book Scholarship recipient: Jasmine Bentley - Project SEED 2005-06

Status: Business major and chemistry minor as a freshmen at Michigan State University

50 Years as an ACS Member

David J. Wilson

My interest in chemistry was triggered by the gift of a chemistry set from my parents when I was in seventh grade; from that time on I was hooked. I somehow survived the accidents to which adolescent chemists are prone, graduated in chemistry from Stanford and, with the help of NSF, got a Ph.D. from Cal Tech with Harold S. Johnston. Two years in the Army working on poison gas were followed in 1957 by an instructorship at the University of Rochester at a salary of \$5,000; this put our little family in high cotton financially! My research was principally in the fields of gas phase kinetics and the theory of energy transfer in gases. I also was heavily involved in the Rochester Committee for Scientific Information's attack on a number of environmental problems. I was particularly active in their water pollution work and in a project on pediatric lead poisoning in Rochester's inner city. This last was done jointly with the Urban League of Rochester, and had by far the greatest social impact of anything I've ever done. In 1969 we moved to Nashville, TN, where I was a professor in the chemistry and the environmental engineering departments at Vanderbilt University until my retirement in 1995. When I went to Vandy I switched research areas, focusing on environmental problems. These included development of analytical methods for substances of environmental interest, surface chemical methods for treating industrial wastewaters, and, later, the development of mathematical models for innovative methods for remediating hazardous waste sites (soil vapor extraction, sparging, bioventing, etc.). I also mentored over 100 high school science and math projects. On my retirement from Vandy in 1995 I went to work for Eckenfelder Inc., an environmental engineering firm for which I had consulted, and stayed with them when they became a part of Brown and Caldwell. Most of my work involved mathematical modeling in connection with Superfund site remediations; needless to say, I met a lot of panic-stricken, hand-wringing business executives in connection with

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this work. Now my wife and I have moved to Michigan to be closer to family. In looking back over my career, I still find it amazing that society was willing to pay me quite generously for doing something that I enjoy so much; my students, my colleagues, and my work have been a constant delight

Marcel L. Halberstadt:

My earliest recollection of “chemistry in action” is a demonstration of the properties of litmus paper by my Uncle Siegfried, when I could not have been more than 4 years old. Sadly, he perished in the Holocaust, a great loss to the profession but a major motivation for me to follow a career in chemistry. The rest seemed to follow naturally, with college and grad school never in question as part of the overall plan. A postdoctoral appointment at the National Bureau of Standards in Washington opened the potential for many paths.

In 1965 I decided to take a pay cut to an annual salary of \$10,000 to become an assistant professor at a new urban campus in the Midwest. That turned out not to be as satisfying as I had hoped, and in January 1972 I moved with my wife and baby daughter to Oak Park, Michigan. A job search at the ACS national meeting had led to an encounter with one of the major influences in my professional career, the head of the materials department at Bendix Research Laboratories. Congress had just passed the 1970 Clean Air Act Amendments, and everyone in Detroit was scrambling to develop emission controls to meet the stiff exhaust standards that EPA was expected to set. As it turns out, the setting of these standards and the hearings leading to that event were the highlight of my stay at Bendix. I was assigned to cover the hearings and report back to corporate management, with analysis and recommendations. In that assignment I met many key auto industry and government agency personnel, making contacts that proved valuable as my career progressed. It was then that I discovered a talent for writing and reporting that I had not realized I had; I had found my niche.

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My early days in Detroit also allowed me to continue helping with the development of young chemists, as an active member of the Detroit Section Education Committee. The enthusiasm with which participating high school teachers and college professors dedicated themselves to their students and to chemistry was truly inspirational. I regret having to stop working with the committee because of other demands on my time.

A few years later, in 1978, I found the job that let me use my combined talents to best advantage. I joined the staff of – what was at that time – the trade association for the U.S. manufacturers of cars and trucks. My degree and training in chemistry, including work in atmospheric photochemistry, my background in the development of exhaust emission standards, my knowledge of regulatory agency personnel, as well as my fluency in two common foreign languages were all put to use in working with a number of auto industry committees, dealing with various aspects of the evolution of emission standards. I definitely enjoyed that job and stayed with it until retirement 20 years later. When someone asked me what I did, I was hard pressed to explain because my work encompassed so many different facets, none of which sounded like chemistry. The person who asked often walked away saying, “Oh, you’re a lobbyist for the auto companies.” No, I wasn’t. But I worked with technical and legal experts to provide background and support to the lobbyists. The auto industry made enormous strides in improving the environmental performance of its vehicles and in its manufacturing processes during my tenure at MVMA-AAMA. I am proud of my participation with the industry during those years.

Among my favorite assignments were two that I will mention briefly. One called on my background in R&D to monitor the association’s participation in the Air Pollution Research Advisory Committee, a major research program administered by the Coordinating Research Council, a long-standing joint venture of the auto and petroleum industries that ensures that engines and fuels are compatible. This assignment led to contacts on a regular basis with outstanding researchers from both industries and saw the dis-

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bursement of many millions of dollars to North American research institutions that made great strides in our present understanding of the formation of pollutants from car and truck emissions.

The other, because of my fluency in French and German, was my assignment, as an industry advisor to the U.S. delegate to the United Nations committee that develops emission regulations adopted in many regions of the world. This led to regular attendance 2-3 times a year at meetings in Geneva, Switzerland, in an atmosphere of international negotiation and diplomacy. More importantly, it led to opportunities to spend time one-on-one with experts from regulatory agencies, and the in-depth exploration of the background behind industry and agency positions, so that misunderstanding could be clarified and mutually acceptable compromises could be developed. Lasting mutual respect and personal friendships were also developed during this time. I miss those days.

Even retirement brought new ventures, as I was recruited into the Michigan Retired Engineer Technical Assistance Program (RETAP). I work with 50 or so retired engineers and scientists located throughout Michigan. This state-funded program assists small businesses anywhere in the state to address pollution prevention and energy conservation issues. Once again, my chemistry background and training proved invaluable in running a program that has helped well over 1000 small businesses in the state save millions of dollars in the past 12 or so years. This is satisfying work for those of us who are participating. It provides some spending money and keeps us alert by always exposing us to challenging and stimulating new situations.

I don't know how usual or unusual my career as a chemist has been. It certainly had a minimum of "pot boiling," something that I feel most people believe chemists do. The directions it took could never have been anticipated, but I've had fun for the most part, especially for the past 29 years or so – not a bad accounting by any measure.

3rd “Chemistry Day at Belle Isle” is a Big Hit with Local Girl Scouts

On Saturday, November 17th, 189 junior Girl Scouts and 68 Troop Leaders or chaperones participated in the third annual “Chemistry Day at Belle Isle”. The Casino building at Belle Isle was bustling with activity as the Girl Scouts of the Metropolitan Detroit area learned about the role of chemistry in every day lives. The event was a large success, mostly due to the support of our volunteers and sponsors. Donations received were crucial in making this event possible. The Detroit Section of the American Chemical Society wishes to thank the following organizations for their support:

General Motors Corporation
Little Caesar Enterprises, Inc.
University of Detroit - Mercy

The Girl Scouts were enthusiastic as they took part in four activities for the day including a service project, a craft project, career session, and hands-on experiments. The service and craft projects were organized by Liz Roberts-Kirchhoff (UD-Mercy). For the service project, the Girl Scouts used their creative talents to decorate holiday placemats. These placemats will be donated to a local charity, to be used at their holiday dinners. For the craft project, the girls used C&E News magazines and colored paper to make science career collages. As this year’s National Chemistry Week theme was “The Many Faces of Chemistry”, the collages provided a nice tie-in.

Next, the Girl Scouts were exposed to a variety of careers available in the field of chemistry. Meghann Mouyianis (UD-Mercy) was the lead organizer for this activity. Three great speakers shared information about their careers and the impact that science has on their professional lives. The speakers met with each group of Girl Scouts to answer questions regarding their careers. This way the Girl Scouts could determine why the speakers chose their

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(Girl Scouts, Continued from page 8)

profession and how they got started in their field. This year a poster session was added to this activity. The posters were fantastic! They provided eye-catching detail on several careers in the chemical profession including forensic science, optometry, patent law, and various medical professions. The Scouts were given a list of questions that they had to answer about the posters. This provoked further discussions about careers in science. The Girl Scouts won prizes on the amount of questions they were able to answer after seeing the posters. The posters were created as a service-learning project by chemistry, biochemistry and biology students from the University of Detroit Mercy. Some of these students were also present at the session to answer questions. The guest speakers of the career program were:

Victoria Hornick-Rosinski, Chemistry Teacher, Cabrini
High School

Patricia Troy, Chemist, Acheson Colloids Company

Denise Glassmeyer, Patent Attorney and Counselor at Law,
Young & Basile, P.C.

The third activity for the day was the hands-on experiments. In this event, the volunteers utilize their backgrounds in science to communicate the importance of chemistry to our quality of life. While the girls are having fun creating messy goo-like substances (Gluep and Slime), they are also learning about the importance of polymers. An experiment that used dry ice helped to explain properties of matter. In all, six experiments were organized by Denise Grimsley (BASF Corp) and Megan Klein (Ash Stevens).

Special thanks go to Mary Kay Heidtke (Magni Industries, Inc) and Caroline Feathers (Girl Scouts of Metro Detroit) for acting as the lead organizers to bring the two groups together. As mentioned above, the event was very successful and met with rave reviews particularly because of our volunteers. These volunteers

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graciously gave their time, energy and enthusiasm. We sincerely hope that you enjoyed the event as much as the Girl Scouts did!

Angela Allen	Han Jen Ho	Felix Schneider
Brittany Allen	Marlina Judd	Leeshik Shin
Hana Attar	Vershaun Jones Basam Shamo	
Prabash Bandaranayake	Lakshmi Kammili	Jennifer Shango
Sydney Coleman	Dave Lesinski	Walter Siegl
Deborah Costello	Zora Longworth	Joanna Szajnar
Lindsay Cullen	Emil Lozanov	Elaine Toenniges
Nic DeBoer	Matt Mio	Kris Toenniges
Justin DiRezze	Rebecca Monroe	Shelly Toenniges
Ellen Foot	Emily Mullins	Josh Thomson
Joseph Furgal	Charlene Nelson	Cleo Vidican
Joe Gianizo	Jacqueline Nortman	Andrew Ward
Natalie Goltz	Tom Ott	Jacob Wingate
Graham Greenland	Bhavisha Patel	Justino Zoma
Amy Hamlin	Andrew Perkowski	
John Heidtke	Brian Roy	

University of Detroit Mercy, Biochemistry I students supplied the posters.



TIME FOR A CHANGE IN LANSING? WE NEED YOU!

Hello Fellow Chemists. The thought crossed my mind the other day (maybe I was looking up at those clouds?): “I wonder if there has ever been a Governor of our Great State who was a chemist as well as a politician?” If you think such thought patterns are odd, you would be in good company; but nonetheless, that was my thought.

With this in mind, I went about the typical process that follows such an occurrence-- I started researching the Internet for information.

Www.Michigan.gov was helpful, yet incomplete, even for biographical history on some fairly recent folks. However, the State of Michigan website lead me to the University of Michigan library site where they have a wonderful tool called “ask US” (<http://www.lib.umich.edu/askus/>). So I did. The following is my e-mail question and the answer (within 24 hours, I might add):

Question: I am the Governmental Affairs Chairman of the Detroit Section of the American Chemical Society and I am wondering if there has ever been a governor who was a chemist or some sort of professional scientist? I would also like to know if there are any current members of the Michigan House or Senate who have been chemists or professional scientists of any sort? Thank you for any help that you can give, (Preferred Answer Type: Factual; UM Status: Other; City: Ferndale; State: MI; Needed By: Today if possible; Referred By: website; Local Library: Mt. Clemens)

Response: Hi! There were no Michigan governors who were scientists and there don't seem to be any current Michigan senators who were scientists although some were doctors. In the Michigan House of Representatives, Kathleen Law was a research scientist, Robert B. Jones was a research chemist, and Tory Rocca worked as a laboratory technician during his college years.

Sincerely, Mary, AskUs Staff

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Well, it seems we have chemist friends in some relatively high places; here are their names and contact information (full address, etc are available at the links below).

Kathy Law (D) kathleenlaw@house.mi.gov, Phone: 517-373-0855

She is on the Agriculture, Governmental Operations, Great Lakes & Environment Tourism, Outdoor Recreation and Natural Resources Committees.

Tory Rocca (R) toryrocca@house.mi.gov, Phone: 517-373-7768

He is on the Insurance & Judiciary Committees.

Robert Jones (D) robertjones@house.mi.gov, Phone 517-313-1785

He is on the Commerce, Health Policy, Senior Health, Security & Retirement and the Tax Policy Committees.

For a complete list of all the Michigan Reps or to double check my spelling, please visit <http://house.michigan.gov/replist.asp>

For a complete list of all Michigan Senators, please visit <http://www.senate.michigan.gov/senators/senfull2007.htm>

I find it interesting that the only three people in the entire group of Senators & Representatives that have any scientific credentials are on committees that have very little to do with science. So this begs the question: Who from the Detroit Section would like to run for Governor or any other office for that matter? Wouldn't that be great to have someone in charge who would know when to stop applying Le Chatier's Principle to the budget?

If you are interested in becoming a candidate for any office, contact me at the e-mail below, party affiliation does not matter. If you know of any other local leaders with a scientific background or have any questions/ comments/ suggestions (even if it is to tell me to stop writing), please send your comments to our faithful editor or directly to me at Kevin@4mas.com.

One of my goals is to strengthen rapport with our government and

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to be involved in a constructive manner. As a citizen, father, grandfather and working adult, I freely admit that I have not always found a good way to work at scheduling government affairs into my life. Finding scientists such as the three mentioned above might be a good start since they already have a professional connection with chemistry and are directly involved in governmental affairs.

I hope that you are having a great time being a chemist, keep up the good work! My guess is that some of us would make great government officials if we would just consider it as option and find out how to get involved. My other guess is that the more chemists we have involved in government, at any level, the better it will function.

Submitted by Kevin O'Mara

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Detroit ACS Section and ANACHEM on the Web

A Website for the Detroit ACS Section and ANACHEM, maintained by Ed Havlena can be found at:

<http://www.detroitsection-acs.org>

The Detroit Chemist is now also available via email in text-only form. The email version is distributed at the same the issue goes to press (much sooner than the printed and bulk mailed edition). To subscribe send an email to: majordomo@angus.mystery.com with

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end

in the body of the message.

American Chemical Society debuts Bytesize Science — a new podcast for young listeners

The American Chemical Society (ACS) Office of Communications has launched Bytesize Science, an educational, entertaining podcast for young listeners. Like the flying car, Anglia, in the Harry Potter films, Bytesize Science transports kids, teachers, and other listeners into a real-life world realm where science is the enchantment.

Bytesize Science translates cutting-edge scientific discoveries from ACS' 36 peer-reviewed journals into stories for young listeners about science, health, medicine, energy, food, and other topics. It includes content from Chemical & Engineering News, ACS' weekly news magazine.

New installments of Bytesize Science are posted every Monday and available without charge. The archive includes items on environmental threats to killer whales, a scientific explanation for why some people love chocolate, some unlikely new uses for compact discs, and a hairy tale about "hairy roots."

The podcaster for Bytesize Science is Adam Dylewski, an ACS science writer and recent graduate of the University of Wisconsin-Madison with degrees in genetics and science communication. Dylewski spent his college career immersed in science and journalism, writing down-to-earth explanations of vital discoveries as a weekly science columnist for The

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Daily Cardinal, UW-Madison's student newspaper. Later, he continued to translate science news as a reporter for UW-Madison's Communications office and for The Why Files, an award-winning science news site with a witty, fun edge.

Podcasting is an increasingly popular way of accessing news, information, and

entertainment content from the Internet. The term was derived from Apple's "iPod," a portable digital audio and video player, and "broadcasting." Podcasts allow users to subscribe to a "feed" and receive new files automatically whenever posted to the Internet.

Subscribe to Bytesize Science in iTunes

No iTunes? No problem. Listen to latest episodes of Bytesize Science in your web browser

Equipping the 2015 Chemical Technology Workforce Mini-Grants

The winners of the Fall 2008 round of Equipping the 2015 Chemical Technology Workforce mini-grants have been announced. The following will receive \$500 for their activities to support technician education and professional development.

Alvin Community College (Alvin, TX) for a day-long open house on process technology careers. High school students and community members will meet local industry representatives, tour college laboratories, and learn about education and careers in process technology.

Delaware Technical and Community College (Newark, DE) for a dinner to introduce students and recent graduates of the chemical and biotechnology programs to local industry representatives. Students will bring their resumes and have the opportunity to interact with potential employers.

ACS Illinois Heartland Section (Peoria, IL) for "A Day in the Life of a STEM Technician," organized in collaboration with the Central Illinois Workforce Development Board. Students and community members will meet Science, Technology, Engineering, and Math (STEM) technicians, see poster and oral presentations on their work, and win door prizes.

Northeast Tennessee Technician Affiliate Group (Kingsport, TN) for a student outreach program. NET-TAG will host a symposium and panel discussion on chemical technology careers, a tour of a local manufacturing/research facil-

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ity, and a networking social for students.

National Technical Institute for the Deaf at Rochester Institute of Technology (Rochester, NY) for the establishment of a chemical technology club. Operated by chemical technology students, the club will organize field trips to local businesses and seminars by guest speakers. Club members will also perform demonstrations at local science fairs and schools for deaf and hard-of-hearing students.

ACS Division of Chemical Technicians (TECH) for a symposium highlighting career opportunities for technicians at the 235th ACS National Meeting. Because technicians frequently lack employer support for meeting travel, travel grants will be provided for qualified technicians. Through panel discussions TECH will explore ways to address the needs of working technicians better.

All of the mini-grant winners have proposed strong programs that bring together several different sectors of the chemical enterprise for the benefit of current and future chemical technicians. Equipping the 2015 Chemical Technology Workforce is proud to help support these activities.

More mini-grants to be awarded

The deadline for the next round of mini-grants is 11 March 2008. Winners of the mini-grants will be announced at the 235th ACS National Meeting in New Orleans. Information on proposal submission and past winners can be found at www.acs.org (follow the path: Education > Educational Resources > Chemical Technology > Building Partnerships).

Background on Equipping the 2015 Chemical Technology Workforce

Equipping the 2015 Chemical Technology Workforce is a collaborative initiative that kicked off at the 232nd ACS National Meeting. The goals of Equipping the 2015 Chemical Technology Workforce are:

1. To raise awareness of the changing needs of professional technicians
2. To highlight opportunities for industry, academia, professional societies, and the community to collaborate on meeting those needs
3. To increase involvement of current and future technicians in the American Chemical Society

In 2007, Equipping the 2015 Chemical Technology Workforce began offering \$500 mini-grants to encourage activities that support technician education and career development. To date, 12 mini-grants have been awarded.

For more information on Equipping the 2015 Chemical Technology Workforce, visit www.acs.org, call 202-872-6108, or email ChemTechLinks@acs.org.

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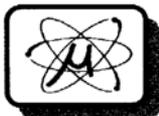
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Calendar of Upcoming Events

January Younger Chemists Committee Tour of Royal Oak Bakeries, *please see the January issue of the Chemist for details.*

January ANACHEM Glassblowing Meeting, *please see the January issue of the Chemist for details.*

February High School Chemistry Teacher Development Conference, and tour of Ford Rouge Plant, *please see future issues of the Chemist for details.*

March David Wiemer speaks on Herbal Products, *please see future issues of the Chemist for details.*

May ACS President Katie Hunt speaks at the Joint Awards Meeting with CIC, *please see future issues of the Chemist for details.*

September Lisa Balbes speaks on Non-Traditional Careers for Chemists, *please see future issues of the Chemist for details.*

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Attn: Dated Material