



PSNA News

Phytochemical Society of North America
Sociedad Fitoquímica de América del Norte
Société Phytochimique de L'Amérique du Nord

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From the President: June 2012



We are looking forward to our next annual conference on August 11-15, 2012 at the University of Western Ontario, London, ON, Canada. The conference starts with a welcome reception on August 11 and I look forward to seeing everyone there! More detailed information can be found in the newsletter and on the conference website http://www.uwo.ca/biology/PSNA_2012/. Registration is still open!

We are extremely pleased to announce a new research grant program open to PSNA members. At our 50th Anniversary conference, Vice President Toni Kutchan and I had some very fruitful discussions with Tom Clarke from Elsevier. We continued those conversations with Joy Ideler from Elsevier and the result is the “Phytochemistry/PSNA Young Investigator Research

Grant Award”. We sent an email blast out to all current members:

“The Phytochemical Society of North America is pleased to announce the inaugural “Phytochemistry/PSNA Young Investigator Research Grant Award”, sponsored by Elsevier, to be presented annually to a dynamic young scientist within ten years of receiving their doctoral degree and currently leading an independent research program in the broader areas of phytochemistry at a university, or at a government- or not-for-profit research institute. Research award amount is \$10,000 US. Applicants must be a current PSNA member to be eligible. Applications should include a cover letter, CV, four-page research plan, budget, one-page budget justification, and three letters of recommendation. Submit electronic applications to Cecilia McIntosh, President of the PSNA (mcintosc@etsu.edu) by July 1, 2012.”

Note that this is open to any PSNA member that meets the criteria; country of residence is not a factor. Applications must be in Eng-

lish, however. Announcement of the inaugural award will be made at the 51st Annual meeting in London, Ontario. Funds will be disbursed in 2013.

This partnership with “Phytochemistry” and Elsevier is most welcome. PSNA members serve on the editorial board of the journal, as ad hoc reviewers, and as authors submitting manuscripts for publication in this high-impact journal. We are excited for this opportunity and for the continued tradition of mentoring and supporting the scientific and career development of new scientists in the field.

See you in London!

Cecilia

Cecilia McIntosh, President



In this issue: Dr. Richard Hemmingway, 2012 PSNA Phytochemical Pioneer, PSNA Pioneer Awardee Helen Stafford's gift to Reed College

The web PDF version can be downloaded from the website: www.pсна-online.org.



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The Phytochemical Society of North America

The Phytochemical Society of North America (PSNA) is a nonprofit scientific organization whose membership is open to anyone with an interest in phytochemistry and the role of plant substances in related fields. Annual membership dues are U.S. \$60 for regular members and \$30 for student members. Annual meetings featuring symposium topics of current interest and contributed papers by conference participants are held throughout the United States, Canada, and Mexico. PSNA meetings provide participants with exposure to the cutting-edge research of prominent international scientists, but are still small enough to offer informality and intimacy that are conducive to the exchange of ideas. This newsletter is circulated to members to keep them informed of upcoming meetings and developments within the society, and to provide a forum for the exchange of information and ideas. If you would like additional information about the PSNA, or if you have material that you would like included in the newsletter, please contact the PSNA Secretary or visit our website at www.pсна-online.org. Annual dues and changes of address should be sent to the PSNA Treasurer. Also check the PSNA website for regular updates.

The PSNA is an all volunteer organization which depends on its membership to run the organization. We appreciate the time and effort these volunteers are putting in to keep the organization up and running. As a member, please consider volunteering to serve on one of these committees. The PSNA can always use more help!

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51st Annual Meeting of the Phytochemical Society of North America

August 11-15, 2012



PSNA 2012 is Only Two Months Away!

Planning for PSNA 2012, (August 11-15, 2012, in London Ontario, Canada) is well under way. We are now within two months of the start, but there is still time to register and submit an abstract. The deadline for early bird registration and abstract submission is June 30. Abstracts received by the end of June will be published in the journal *Pharmaceutical Biology*.

Please visit www.uwo.ca/biology/PSNA_2012 for full conference registration and abstract submission information.

In addition to two Arthur C. Niesh Young Investigators, we have arranged fourteen invited speakers in five separate symposia. There is space in the program for an additional 32 oral presentations (to be selected from submitted abstract), as well as unlimited space for poster presentations. Symposia will cover five broad areas of interest to phytochemists, and include a great cast of invited speakers. Symposia and confirmed speakers include:

Neish Investigators: Dr. Mark Sumara, Agriculture and Agri-Food Canada, London ON, and Dr. Daniel

Cook, USDA ARS Poisonous Plant Research Laboratory, Logan, UT

Symposium I Biosynthesis & Metabolism, featuring Dr. Argelia Lorence, Metabolic Engineering, Arkansas State University, and Dr. Kevin Walker, Chemistry/Biochemistry & Molecular Biology, Michigan State University.

Symposium II Genomics & Bioinformatics, featuring Dr. Anne Osbourn, John Innes Centre, Norwich Research Park, UK and Dr. Daniel Kliebenstein, Department of Plant Sciences, University of California Davis

Symposium III Botanicals & Medicinals, featuring Dr. Ilya Raskin, Global Institute for BioExploration, Rutgers University and Paula Brown, BC Institute of Technology, Vancouver, BC.

Symposium IV Bioproducts From Canadian Forests; Production of Valued Attributes, featuring Dr. John Thor Arnason, Department of Biology University of Ottawa, Ottawa, ON, Dr. Franco Berruti, Department of Chemical and Biochemical Engi-

neering, Western University, London, ON, Dr. Emma R. Master, Department of Chemical Engineering and Applied Chemistry, University of Toronto, Toronto, ON, Dr. Art J. Ragauskas, School of Chemistry and Biochemistry, Institute of Paper Science and Technology at Georgia Institute of Technology, Atlanta, GA, and Tom Rosser, Assistant Deputy Minister, Canadian Forest Centre, Ministry of Natural Resources, Government of Canada, Ottawa, ON.

Symposium V Phytochemicals in the Interaction Between Plants and their Environment, featuring Dr. Dorothea Tholl, Department of Biological Sciences, Virginia Polytechnic Institute and Dr. Jim Tokuhisa, Department of Horticulture, Virginia Polytechnic Institute.

We hope to see you in London (Ontario) in August!

Conference sponsors include Natural Resources Canada, the American Chemical Society (*Journal of Natural Products*), Western University and the Faculty of Science (Western University). Free advertising has been provided, in part, by Elsevier (*Phytochemistry*).

Richard W. Hemingway

An Autobiography
Pioneer Scientist Awardee at the
50th PSNA meeting, 12/2011.

This biographical note is offered as a summary of my memories of the many people and places that were important in trying to do some science over a span of more than 50 years. I hope this biography will give the vibrant group of young scientists that attended the 50th Annual PSNA Meeting in Hawaii a stimulus to keep working to advance our knowledge of plants. Above all, I hope that they can make journeys in their life in science similar to those I have enjoyed in so many interesting places with so many good friends.



A view of Crater Lake National Park about 2 hours drive south of Bend.

I grew up in Bend, Oregon, the son of Dr. Max and Helen Hemingway. In my formative years during WW2, Dr. Max was in France and later in the South Pacific managing hospitals. My mom tried to manage my sister Kris and me over those war years.

With beautiful views of the Cascades and a short drive to the High Desert, Bend was a wonderful place to grow up. I love the mountains and desert equally. Even as a young boy, my questions about what made different plants different worked on my mind. Goodness knows, we had a vast array of different plants in the Bend

area. My dad did everything possible to make up for the years of absence during WWII. He included me in a wide range of hunting (mostly for quail, ducks, and pheasants) and fishing trips. We went to the Mink Lake Basin on the Cascade Summit for trout and other times to British Columbia for salmon.



A view of the Cascades from Highway 20 just west of Bend



Our 50+ yr old cabin used for deer hunting.



The headwaters of the Metolius River.

As a teenager, I was blessed to have a series of summer jobs, mostly working for Hans C. Milius who was in charge of Forestry for Brooks Scanlon, Inc. He gave me experiences in marking timber to cut from company lands and cruising marked timber offered for sale on Forest Service land. I also had a summer or two helping with forest road building, pulling up rail tracks when they changed to all trucking, and even chipping scale off the inside of boilers used to gen-

erate steam and electricity.

When I was 71, Helen and I went up the same road we built 50 years ago when I worked for Brooks Scanlon.



Mt. Washington viewed from Cache Mt.

That reminded me of landing on the back of a sleeping black bear while setting cut and fill stakes to make the road. The summer between my junior and senior years of high school, my parents were building a new home in Bend and I made my first business: Hem's Dirt Co. I also met Helen Dyer, the girl that became my partner and wife for more than 50 years. She liked dancing at real western "honky tonks" but also was very serious in making me pay attention to learning something useful. I studied Forestry at Oregon State in Corvallis starting in the fall of 1957. A year later Helen went to U. of Oregon in Eugene to study English.

Thank goodness it was only about 60 miles between Corvallis and Eugene.



Richard and Helen together at a party in Eugene before we married.

When we married, we had nearly two more years of undergrad school to do. We first rented a tiny house near campus and then moved to a real log cabin out on Soap Creek adjacent to OSU's McDonald Forest which Dale's dad gave us rent free. He also gave us a pickup if we would look after his property. That was an ideal life. I could catch a few trout for dinner most evenings and made a 4.0 in the most challenging set of classes I ever had. Helen and I were in heaven. Helen pushed me to go to graduate school. We decided to go to U of Michigan in the fall. She was going to have our first daughter Margaret in the summer.



Margaret Irene

We drove from Bend to Ann Arbor, Michigan with our one month old baby, Maggi. I booked my classes and we got student housing to start a new life. Helen got a job working for the geology department.



School of Natural Resources, U of Michigan.

At the end of our second year at Ann Arbor, Claire was born. Our daughters added much to our lives, still do.



Claire Allison

I got my MSc, and started work on a PhD under Dr. Everett Ellis. About a year after that, the University announced that our department would be closed and all the Profs in that Dept. started looking for new jobs. Dr. Ellis went to Oregon State University and, after much debate, I decided to stay at Ann Arbor and work under Dr. Allan Mara. This gave me the opportunity to change my thesis topic to an analysis of the thermal instability of fats relative to the surface wettability of yellow birch wood, a topic that really excited me.

The last three years at Ann Arbor were not fun but we bulldozed through it. I ended up being the last graduate student in residence in our department. All faculty was racing to find new jobs. Both Walt and Andy, my fellow PhD candidates, were delayed for years before they finally got their PhDs.

While doing my thesis research, I found a new book "Wood Extractives" edited by Dr. W.E. (Ted) Hillis at the Forest Products Division of CSIRO in Melbourne Australia. A fellow in our married student housing unit encouraged me to write to Dr. Hillis inquiring about the possibility of a post-doc with him. Dr. Hillis suggested I come for two years, I passed my final defense, and we were on our way to Melbourne following Christmas with our family in Bend.



My family getting ready to go to Australia.

The research environment at the Forest Products Division of CSIRO was just wonderful in the first few years. I stayed on for what ended up as five years. Sadly, in my fourth year, the Forest Products Division was closed with about half of the people including Dr. Hillis' people going to Building Research and the pulp and paper people in Dr. Higgins' group to the Chemistry Division. Looking back at my 50 years of life in research, the years I enjoyed in Melbourne at the CSIRO were truly the very best. We worked and played hard. I learned so much from my colleagues.

George Davies was a great friend. We enjoyed many a counter lunch and horse race together, including the Melbourne Cup and even better country races such as Murtoa and Great Western where George was either a handicapper or an announcer. I think he ended up a handicapper for the Victoria Racing Commission, a very high honor.

We also became good friends with the families of Dr. Louis Shain (from Pennsylvania) and Dr. Graham McKay (from Scotland). A part of our friendship came from our strong interest in fishing for trout and camping in the bush. To our surprise, there was very good trout fishing at Lake Eildon in Victoria and especially at Lake Eucumbene, a longer drive to the Snowy Mountains. Surprisingly few Australians had interest in trout fishing.



Lake Eucumbene was great trout fishing.

We loaded up our little Morris 1100 with all our camping gear on top and went to Surfers Paradise in Queensland. There we had to survive a bad typhoon – called a hurricane in Louisiana.



Our camp at Surfers Paradise

One of our most favorite places was an old aboriginal campground called Mootwin- gee out in the desert by Broken Hill. The cave paintings and rock engravings were beautiful.



An aboriginal cave painting.

We did get some science done too. Even today after nearly 40 years we still have good contact with Adrian Wallis and Andrew Rozsa. It was really difficult to find a job back in the US. I finally was accepted for two interviews back in the USA. I accepted a job with the USDA Forest Service working for Dr. Peter Koch

at the Southern Research Station in Pineville, Louisiana. Dr. Koch was, I think, shocked when I told him that my main interest was to find a way to build a research initiative that I could call my own. I started with a completely empty lab space with no equipment. I now know how much Peter Koch changed my life. He was always in a hurry to find success but he had great patience with me.



Peter Koch Southern Research Station. Pineville.

I still remember the surprised look on Jack Rowe’s face when I excitedly showed him the two Buchi rotary evaporators, a fume cupboard, and benches that I had installed in my lab space when he visited from the Forest Products Lab at Madison, Wisconsin. I will always remember the warm welcome that Jack gave to me as I started to build my research program.



At Jack Rowe’s home with me, George Barton, Olaf Theander and Herb Hergert.

I got to develop a program focused on condensed tannins (proanthocyanidins) which was centered on partnerships with many scientists around the world. A important partner was Dr. Roland E. Kreibich who was the

retired manager of the Weyerhaeuser Co. chemistry group. We had a wonderful relationship after he retired.



My good friend and partner in science, Roland Kreibich.

Another good partner in my science was Fred Tobiason at Pacific Lutheran University in Tacoma, WA.



Fred and I enjoyed work together on many projects and are really good friends.

Going to Louisiana let me live in a rural environment with lots of forest and lakes. I tried to be a bird (quail) hunter. All the good bird dogs I ever owned, and there were many, came to me through my friend Lary Roton. My favorite dog is still Rusty, a Brittany who was really smart. I was lucky to have several nice English Setters including Graham shown below with Rusty as well as two really outstanding Pointers. I loved the discipline involved in quail hunting in Louisiana.



Rusty found a bird and is teaching Graham the setter to hold a bird on point.

I was also blessed to find a good partner Tee Clifford who loved bird hunting and we shared many years together hunting quail. Tee was mainly true to duck and goose hunting. Poppa Clifford (Tee's dad) had a wonderful blind at Fenton, Louisiana. We enjoyed many years of hunting ducks and geese together. I had found heaven in my recreation as well as at work.



Poppa Clifford with his retriever Queenie and me.

I thank Peter Koch for his patience in allowing me to spend a year working at the Chemistry Division of DSIR in Petone, New Zealand with Laurence Porter and Yeap Foo. I also spent some time working with Mike Henan an accomplished tramper getting me ready to take Helen on the Milford Track Freedom Walk. Yeap, Laurence, and I also were successful in proving the structure of three trimeric procyanidins and solved a big problem in measuring the molecular weight profiles of various tannin extracts.

After about 10 years on the bench and the retirement of Peter Koch, I became the Project Leader of our group in Pineville. I tried to make a difference to the successful management of Peter Koch. I pushed hard to get each scientist performing as a project manager and reaching for the best science. I think I made my goals. I continued that project management work for nearly 15 years. Our unit was highly rated and all scientists in the unit obtained funding from the USDA competitive grants.



Yeap Foo, a good partner from New Zealand.

I was granted another year to work as a visiting scientist at the University of the Free State, Bloemfontien South Africa to continue work with Jannie Steynberg for a year as a visiting scientist. The students and staff working under Prof. Daneel Ferreira were extremely patient to converse in English rather than their usual Afrikaans. I hope I make a number of good friends. It was my second time in Africa and I came at the time of transition to Nelson Mandela and the ANC.



A young Kudu bull surprising out in the open at Kruger Park.

I asked to step down as Project Leader after 15 years of management of our unit to be in a job as a senior scientist with only lab work to do. I was able to keep that position for another 5 years. Tim Rials took over the Project Leader position and he had us going to a strong position.

After a lot of commotion involving formation of a non-profit company, I finally was able to organize the 3rd Tannin Conference in Bend with Georg Gross and Takashi Yoshida. This became my most satisfying project. I thank Bennie Berke, a vis-

iting scientist from Bourdeaux, for all her help.



3rd Tannin Conference Organizers

My plan was to keep going for five more years when we would focus on what we might do to improve human health. I was intent on work related to the prospect that plant polyphenols were important to health. That did not match well with the Southern Station's research objectives. It was time for me to retire from the Forest Service after 30 years of service.



Dr. Wayne McGraw and I started our small business Plant Polyphenols LLC. This worked out well because we could rent lab space from Louisiana College and gain access to the best of their students.

I was surprised to be awarded the 4th Tannin Conference Award at the meeting in Philadelphia where Helen broke her foot.





4th Tannin Conference Award presented by Georg Gross, Herbert Kolodziej Takashi Yoshida, Daneel Feirera, and Rebecca Robbins.



Receiving the Pioneer Scientist Award.

Bio Prof Bequeaths Fortune to Reed

By Randall Barton on February 10, 2012 10:39 AM

Reed Magazine *Sallyportal*
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Your PSNA Pioneer Scientist Award was a great honor for me. I thank you for that. I can accept that honor so long as we all recognize the hard work of my many partners, most importantly Helen Hemingway who has been my best partner for more than 50 years.

I am still working on my recovery from heart by-pass surgery about seven years ago. I ride my stationary bike usually 50 miles a week and I am slowly getting better. We have a wonderful life in the home we built 16 years ago out on 9 acres of forest land with a lot of waterfront on Kincaid Lake. If you are brave, Helen will take you in her Kayak and you might find a nice alligator.

When President Colin Diver announced last week that Reed's Centennial Campaign had passed the \$185 million mark, he also revealed that the late Helen Stafford [biology 1954-87] had bequeathed an astonishing \$8 million to Reed in her will. The bulk of the gift will provide financial aid to students otherwise unable to attend Reed, and \$1 million will support the biology department.



Kincaid Lake.



Mesa Verde is beautiful.

When news of Prof. Stafford's gift reached her niece Anne Scarff in Amherst, Massachusetts, she was gobsmacked.

"We received a magnanimously generous gift from your aunt this week," we told her.

In our retirement, we have been making a lot of road trips especially to the SouthWest US National Parks which we both love. Helen does the driving and I usually enjoy the scenery unless we get too high in the mountain roads. Ever since Mike Henan took me on a mountain tramp in New Zealand where we had to crawl over about 200 feet on a very narrow ridge with the snow blowing up to us from 1,000 feet below, I have a serious fear of heights. The sights one can see in these parks made me overcome that fear.

I close this note with my memory of the many young scientists who attended the 50th Annual PSNA Meeting. Certainly, our science will grow. Just look at the young scientists who were honored at this meeting as highlighted in the last PSNA Newsletter. Do something fun every day.

"Oh, no kidding," she said. "What was that?"

"Her estate has provided a gift to Reed in excess of \$8 million."

"I'm sorry. I'm confused. Whose estate?"

rwhem@wildblue.net

"Helen's."



"Helen Stafford's?!!!! Eight million? Wow! ... I'm flabbergasted. I knew that Reed would inherit what she had. That was always understood. But I had no idea."

Born in 1922 to a wealthy Philadelphia mill owner and his wife, Helen was raised in a big house with servants. But when the stock market



crashed in 1929, Milton Stafford lost his fortune and Helen attended Wellesley on scholarship, working her way through college.

Her distinguished career began when Helen studied botany with geneticist Harriett Creighton at Wellesley. She worked as a research assistant at Cornell, then took a research position with Richard Goodwin at Connecticut College for Women. Goodwin persuaded the college to create a master's degree for Helen's groundbreaking thesis about the development of anatomical structures and the effect of light in timothy grass seedlings. The thesis was published in the *American Journal of Botany*, the first of her more than 70 publications.

Dr. Robert McNair Scott '61 met Helen when she was studying with David Goddard at the University of Pennsylvania. She had overcome prejudice to become the first woman to teach male botany students at the university and earned a PhD in 1951 for her discoveries about plant enzymes.

"When I was considering Reed," Robert remembers, "my mother said that David considered Helen Stafford one of his finest students. That was one of the things that drew me to Reed."

During his sophomore year, Robert worked for Helen as a teaching lab assistant.

"I learned more from her patient and enlightened teaching that year than I did in class," he said. "Helen was a quiet but inspiring person and a very fine teacher. She was an incredible woman who opened many doors, both to her students and to her gender."

It was while she was teaching at the University of Chicago that she came to the attention of Reed's biology faculty, and in particular Lewis Kleinholz [1946-1980] who recognized that the department would benefit from her exemplary teaching and research experience as well as her reputation for clear, thoughtful, innovative work.

In 1954, Helen accepted a position as Reed's sole biology professor specializing in botany and the only female faculty member in the sciences. She and her colleagues laid the groundwork for what became one of the top undergraduate biology programs in the U.S.

"Helen was very active in what we were trying to accomplish, which was to change the whole department and its approach to teaching," says Laurens Ruben [biology 1955-92]. "Most of our students were going on to graduate work and the program we were offering didn't create enough depth and or take sufficient advantage of scientific inquiry. We tried to take the best things of a graduate program and meld them with the best things of an undergraduate program."

Anne Wood Squier '60 taught labs for the biology department and worked for Helen one summer.

"Nothing got in the way of the absolute precision of her experimental methods and she had a passion for new knowledge," Anne says. "She found her niche at Reed where she

could teach bright students, and get a lot of satisfaction from pointing them down various pathways, and continue to do her work at a very high level.”

Anne and her husband, Professor Leslie Squier [psychology 1955-88], lived at the top of the canyon and often saw Helen walk past their driveway “first with Willie, a beautiful little sheltie, and then after he aged out with each dog that succeeded him.”

An automobile hit Willie, remembers Bert Brehm [biology 1962-93], and the dog limped around with his leg in a cast. “Years later, whenever Helen chastised the dog, Willie would limp in a bid for sympathy. Late in his life, Willie would forget which leg had actually been injured and variously, limped on different legs.”

Helen served as a role model both for the women who took her classes and those that followed her into the department as faculty.

“We all knew she was exceptional,” says Pamela Ronald ‘82. “At that time there were still very few women scientists, at least very few highly recognized scientists. She was the only woman in the department. So she was definitely a pioneer and we were really glad about that. We figured if she could do it well then why couldn’t we? Having women mentors meant a lot to us.”

Currently a professor of plant pathology at the University of California-Davis, Pamela remembers that Helen was both very reserved and focused. “But Helen was inspirational because she loved her work, and was interested in what her students were thinking about. She was one of those professors who really gripped my imagination and made me believe in the power of the individual, that one

person can make a difference.”

Living frugally, Helen endowed the \$1 million Morton O. Stafford Jr. scholarship at Reed in memory of her brother, who was killed in World War II. She savored her work and continued to advise thesis students four years after she retired from teaching at Reed in 1987.

Rae Gitzendanner ‘96 looked forward to her weekly meetings with Helen.

“She spoke with such passion. Discussing this thesis with someone as knowledgeable, enthusiastic and patient as Helen was definitely an unexpected reward. She provided an open and lively atmosphere where we could test out ideas.”

Now an environmental engineer in Gainesville, Florida, Rae had three areas in her thesis and while two were progressing, one floundered. Helen felt it was important that Rae enjoy her thesis experience and suggested they change the thesis goals. That which was not moving forward could be left behind and Rae would still learn from the other areas.

“She felt the important thing was to pursue what most interests and excites you--to pursue one’s strengths rather than continue to focus on one’s weaknesses,” Rae says.

In addition to being awarded a Guggenheim Fellowship at Harvard, an NSF senior postdoctoral fellowship at UCLA, and work on condensed tannins at the Oregon Graduate Center, Helen consistently broke new ground with her work on aromatic compounds, flavonoids, proanthocyanidins, and the particular compound plants used for defensive purposes and to make structural materials.

Some years after retiring from teaching, Helen was diagnosed with Alzheimer’s.

“The transition to Alzheimer’s was obviously very difficult, but she did it with that typical curiosity that she always had,” her niece, Anne, remembers. “She wanted to understand it and do what she could. I think she maintained that fine sense of curiosity right through this transition of immense loss intellectually.”

Mary Potts, who was employed as Helen’s caretaker for six and a half years, remembers visiting Reed’s campus with Helen and her faithful dog, Brownie.

“Reed was her life,” says Mary, “she just loved it and came in five days a week with Brownie to walk around campus. Helen never left the house without two things, her hat and Brownie. So many kids on campus knew Brownie by sight. They’d say ‘Hi, Brownie,’ and these were kids she hadn’t taught because by the time I got there she hadn’t been teaching for some time.

“We used to go to the college to collect her biology magazines. Physically the disease progresses little by little. Finally she told the secretary in the department not to set the magazines aside for her anymore, because she couldn’t comprehend what she was reading. She wanted to make sure that if they ever found something that would slow down the disease that she would take it. But that didn’t really happen.”

Helen’s legacy of scholarship, both as a teacher and in providing opportunities for future students to become Reedies, insures she will be remembered.

“Reed was everything to her,” Anne says. “I’m so delighted that she will

be a part of Reed's future; I just couldn't be happier. I almost wish it was known in her lifetime so she could enjoy some of the celebration. But that wasn't like her, she wasn't one to do that."

Following her wishes, Helen's ashes were scattered on the shore of Reed Lake near the blue bridge that she loved.

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PSNA Young Members Committee

PSNA Guidelines and Procedures Committee

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Phytochemical Society of North America
Sociedad Fitoquímica de América del Norte
Société Phytochimique de L'Amérique du Nord

New Member Application Form

Please fill in the following application and return to the Treasurer with your dues payment. Once your application has been processed, you will receive newsletters and special mailings. You are also eligible for PSNA member discounts on the Recent Advances in Phytochemistry series (See Website).

Payments should be made by one of the following: check drawn on a US checking account, US travelers check, or US money order, International Money Order, Credit Card on the PSNA Website or Paypal payment to psnatreasurer@yahoo.com. Please make check or money order payable to the Phytochemical Society of North America.

We would appreciate it if you would also enter your contact information for the PSNA membership at: http://psna.uhhconferencecenter.com/?page_id=878

Credit Card Payment: Paying membership dues online via credit card has now been established. Please select the link from the PSNA homepage to pay by credit card. A paypal account is NOT required but will expedite the process. If using a paypal account, send directly to psnatreasurer@yahoo.com

Advance Payment: It is now possible to pay dues in advance. If you wish to take advantage of this feature, please indicate above the years for which you would like to pay in advance.

Dues schedule: Regular member - \$60.00 per year
 Student member - \$30.00 per year

Return this statement along with your payment to: Daniel Owens
 PSNA Treasurer
 USDA-ARS
 P.O. Box 8048
 University, MS 38677

Name (Dr., Mr., Mrs., Ms.):

Mailing Address: Line 1:

Line 2:

City: State/Province: Zip/Postal Code:

Phone: Fax:

E-Mail:

The PSNA homepage is now available at www.psna-online.org