



A bi-monthly newsletter to faculty/staff/retirees of WSU Long Beach, Mt. Vernon, Puyallup & Vancouver

Message from the Director

Every organization needs a strategic plan to determine its future course. WSU Puyallup is in the process of updating its current strategic plan to incorporate both an overall vision for collaborative research and extension programs, and all components for the future of the Center.

The updated implementation plan is being developed by a committee of dedicated faculty called the "Action Team". Over the past five months this team has met several times to develop the outline and detailed components of the plan for future research and extension programs. The implementation plan has been reviewed by all faculty and their input has been incorporated into the plan. It was then presented to the staff and their input has also been incorporated. A pre-advisory committee composed of key community members convened to review and discuss the plan and their input has been incorporated as well. The strategic plan still has a few steps to go before it is completed during the next month. It will be reviewed by a sample of our traditional agricultural constituency who has been the core of the Center. These reviewers will include representatives of the fruit, vegetable, turf, landscape and ornamental, dairy, forestry, and Christmas tree industries. Although WSU Puyallup has added programs over the years to address family and consumer science needs, 4H and Youth, small farms, and economic development, traditional agriculture will remain a part of the core of the Center. The final steps of the Action Plan will include a presentation to the CAHNRS department chairs and the Dean and Directors.

The strategic plan will incorporate many important components for the future of the Center. These include the development of an external advisory committee, a marketing plan, a facilities plan, grant development, and several other components. Development and implementation of the core components of the plan will not only ensure the future survival and growth of the Center, but also marketing of the research and extension programs to decision makers and the community. We hope you find our plans for the future as exciting as we do.

--Jim Kropf

WEST PROFILE

COORDINATED PROGRAM IN DIETETICS AT WSU PUYALLUP

Washington State University's Coordinated Program in Dietetics, (CPD), combines classroom education with "real world" experience in dietetics including community nutrition programs, clinical dietetics and foodservice management. The program was founded 26 years ago on the belief that combining supervised practice and on-the-job experiences with classroom instruction enhances the educational experience. In this program, students complete the academic requirements for a Bachelor of Science degree as well as 900 hours of internship

experience. This provides the student with eligibility for membership in the American Dietetic Association and preparation for writing the National Dietetic Registration Examination.

Students spend their first years in the program on campus in Pullman completing basic and general university requirements and nutrition/dietetic courses. Then they have the option to move to the westside to complete the internship. The final year of the program is fast paced, challenging and dynamic as enrollees are dietitians by day and students by night. Students spend one semester at Madigan Army Medical Center (MAMC) on Fort Lewis in Tacoma. MAMC's nutrition care division has provided technical and educational support to the program in addition to supplying an office and classroom for Susan Scheunemann, M.S, R.D, Director/Clinical Instructor. While at MAMC, students meet clinical competencies while providing nutritional care to assigned patients in critical care, oncology, medical and surgical units, and the outpatient nutrition clinic. Students also have a geriatrics rotation at the Veteran's Affairs Hospital at American Lake and a renal (kidney) rotation at various dialysis units around the Puget Sound Region.

Concurrently, another group of students focuses on competencies for foodservice management and community dietetics. This portion of the program has undergone extensive changes in the last three years. In 2000-01, to keep the program "World Class, Face to Face", administrators and faculty decided to move the class to the westside in order to provide more opportunities for students. WSU Puyallup provides office space for instructor **Leeda Jo Beha, RC, CD**, classroom space, and technical support to staff and students. Students spend 8 weeks in local area hospitals completing a hospital-based foodservice rotation, 3 weeks at various school districts working with the National School Lunch and Breakfast Programs, 2 weeks at various Women, Infant and Children (WIC) Clinics, 1 week in a Long Term Care facility and 1 other week as a "free choice" week where students are able to work with a dietitian in an area of dietetics they are passionate about, but may be beyond "entry level" competence.



On the westside CPD is able to give more exposure to the students by providing them with the opportunity to hear cutting-edge guest speakers on a regular basis, participate in legislative day in Olympia, and participate in 3 local dietetics associations. Leeda has been able to forge a number of cooperative relationships with various dietitians, organizations and institutions in the area. The use of Washington Education Conferencing Network, (WECN), enables instructors and students to participate in classes, prospective student interviews, presentations, and to remain connected to their home department in Pullman without having to leave the classroom. The program has also been able to participate in the Seminars for Student Dietitians, a collaborative seminar series with all of the other dietetics programs in Washington State via Washington Higher Education Telecommunications System, (WHETS). This has allowed our students to not only benefit from the information presented by expert speakers, but to network and collaborate with dietetic students enrolled in the other programs around the state.

Inquiries about the Coordinated Program in Dietetics can be directed to Susan Scheunemann, M.S., R.D., 253-968-1425 or Susan.scheunemann@nw.amedd.army.mil.

PRESENTATIONS/MEETINGS/TRAININGS/INVITATIONS

Art Antonelli presented Master Gardener training to over 500 participants in Port Orchard, Anacortes, Olympia, Puyallup, Everett, Seattle, Bellingham, Port

Townsend, Chehalis, and Ellensburg, Feb-Apr. Art provided training at Carrie Foss' Pesticide Recertification class in Seattle and Bremerton, and the Pre-license course in Puyallup, Feb and Apr.

Art Antonelli gave a guest lecture to Van Bobbitt's Horticulture class at South Seattle Community College.

Craig Cogger gave two invited presentations on organic amendments at the Western Canada Turfgrass Association annual meeting in Victoria BC.

Craig Cogger and **Andy Bary** gave invited presentations on biosolids management at the Clackamas Short School for Wastewater Operators in Clackamas, OR.

Dean Glawe gave the following presentations: "Diversity of powdery mildew fungi in the Pacific Northwest and an introduction to fungal names and how to use them," King County Master Diagnosticians, Center for Urban Horticulture, UW, Feb 9; "Biology of host-parasite interactions in powdery mildews", Seminar on Symbiosis, Department of Biology, UW, Seattle, Apr 15.

Gary Chastagner gave the following oral presentations: "Overview of WSU/OSU Christmas tree and conifer nursery SOD project," Western Nursery Pathologists meeting Medford, OR, Aug 18; "Update on Christmas tree, ornamental bulb crop and sudden oak death research at Washington State University," NCR 193 meeting, Wooster, OH, Sept 7-9.

Gary Chastagner, Art Antonelli, John Stark, Kathy Riley, and Paul Kaufmann, (members of the WSU Puyallup Christmas Tree Program), attended the Sixth International Christmas Tree Research and Extension Conference, in Hendersonville, NC, Sept 14-19. **Chastagner** gave the following presentations at the conference: "*Heterobasidion annosum* associated with mortality of Christmas tree in the Pacific Northwest"; "Susceptibility of conifer shoots to infection by *Phytophthora ramorum*"; "Identification of Canaan fir trees with superior needle retention"; "Late season moisture levels of Christmas trees on retail and wholesale lots in Washington, Oregon and California"; "Effect of Annosus root rot on the keepability of noble fir Christmas

trees"; "Effect of harvest date on needle retention by various true firs"; "Identification of fungicides to control sudden oak death".

Gary Chastagner gave the following presentations: "Development of superior Christmas trees for future markets," WSU President's Associates Council Meeting, Seattle, Dec 3; "Handling and care of cut Christmas trees," Kiwanis Club meeting, Dec 4, Puyallup; "Update on fungicide trails on ornamental bulb crops," Western Ornamental and Turf Disease Conference, Portland, OR, Jan 14; "*Phytophthora ramorum* and the effectiveness of fungicides in controlling shoot infections on conifers", Western Ornamental and Turf Disease Conference, Portland, OR, Jan 14; "Susceptibility of conifer shoots to infection by *Phytophthora ramorum*," 51st Annual Western International Forest Disease Work Conference, Grants Pass, OR, Aug 18-22. (**Chastagner** and **K. Riley**); "Sensitivity of *Phytophthora ramorum* to fungicides," 51st Annual Western International Forest Disease Work Conference, Grants Pass, OR, Aug 18-22. (**Chastagner** and **K. Riley**).

Gary Chastagner attended the following meetings: Western Nursery Pathologists Meeting, Medford, OR, Aug 18; Western International Forest Disease Work Conference, Grants Pass, OR, Aug 18-22 (**Chastagner** and **K. Riley**); NCR-193 Committee on Diseases and Insects of Ornamental plants, Wooster, OH, Sept 6-9; 2003 IR-4 Ornamentals Workshop, Windsor, CT, Oct 20-23; SNCC Annual Meeting, Corvallis, OR, Nov 6; Western Ornamental and Turf Disease Conference, Portland, OR, Jan 14.

Carol Miles, Lindsey du Toit, Gary Moulton, David Muehleisen, Gary Chastagner, and growers co-organized the program for the Western Washington Horticultural, Northwest Bulb Growers, and Puget Sound Seed Growers Associations Convention and Trade Show, SeaTac, WA, Jan 7-9.

Gary Chastagner, Carrie Foss, and Art Antonelli co-organized a 2-day Christmas tree disease and pest management workshop WSU Puyallup, Sept.

Gary Moulton represented the westside

at a meeting of the Planning Committee on Pesticide Strategies for Wine Grapes in Washington State, held at Pasco, WA, Mar 17.

Gary Moulton gave a presentation to the Vancouver/Island Wine Growers at Sidney, B.C. Canada, on the results of the wine grape research done at Mount Vernon in 2003, Apr 3. The discussion included reports of the 2003 harvest, wine currently in production, and remarks on rootstock selection and cultural methods best adapted to grape growing in a cool maritime climate.

Joe Harrison and **Craig Cogger** attended a planning meeting for the national Livestock and Poultry Environmental Stewardship (LPES) small farm team in Kansas City. The purpose of the team is to develop educational materials on manure and livestock management to protect water quality.

Lindsey du Toit gave a presentation titled "Diseases of vegetable seed crops in western Washington: 2003 Research summary" at the Skagit Farmers' Supply Growers' Recertification Meeting, Feb 18, and at the Seed Growers' Meeting for Alf Christianson Seed Co. in Mount Vernon, Mar 5. Lindsey also talked to the Salal Chapter of the Washington Native Plant Society about "Diagnosis of plant problems", Feb 7.

Lindsey du Toit and **Mike Derie** put together a 6-hour lab session titled "Spinach Seed Assay Workshop" for representatives of seed companies and commercial seed labs on the use of a freeze-blotter assay to detect *Stemphylium botryosum*, *Cladosporium variabile*, and *Verticillium dahliae* on spinach seed, Mount Vernon, Apr 2.

The following presentations were made by westside WSU personnel at the combined annual meetings of the Western Washington Horticulture Association (WWHA), the Northwest Bulb Growers' Association (NWBGA), and the Puget Sound Seed Growers' Association (PSSGA) in SeaTac, Jan 7-9: **Tim Miller**, "Weed control in ornamental bulb crops: What's new?"; **Gary Chastagner**, "Potential new options to manage diseases on ornamental bulbs and bulb crops"; **Andy Anderson**, "Interesting varieties and cultural practices to consider

for the 2004 season"; **Brad Goaloch**, "Flea beetle control in Brassica crops"; **Tim Miller**, "Herbicides for peas and cucumbers"; **Lindsey du Toit**, "Sweet corn root rot in the Willamette Valley" (on behalf of Alex Stone) and "Diagnosing vegetable diseases"; **Tim Miller**, "Weed control in vegetable seed crops in western Washington: 2003 research report"; **Lindsey du Toit**, "Control of Alternaria leaf/pod spot and white mold in Brassica seed crops: 3-year research summary"; **Lindsey du Toit** and **Pablo Hernandez-Perez**, "Leaf spot of spinach seed crops" 2003 research report"; **Tim Miller** and **Lindsey du Toit**, "Mustard cover crops for spinach seed production"; **Lindsey du Toit**, "Verticillium wilt in spinach seed crops"; **Tim Miller**, "Weed control in small fruit and cane fruit crops"; **Gary Moulton**, "Wine grape culture in a cool maritime climate"; **Hollis Spitler**, panel discussion on "Plant acquisition, source and propagation"; **John Stark**, "Effects of pesticides on salmon food"; **Marcy Ostrom**, "Future trends in direct marketing".

Lindsey du Toit presented a workshop, "Diseases of vegetable seed crops: Identification, biology, and management" at the Organic Seed Growers' Conference, Corvallis, OR, Jan 10.

The following presentations were given at the 2004 Western Disease Conferences in Portland, OR: **Jenny Glass**, "Summaries of diseases diagnosed on vegetable, turf, ornamental, and tree fruit samples received at the WSU Puyallup Plant & Insect Diagnostic Lab in 2003"; **Gary Chastagner**, "*Phytophthora ramorum* and the effectiveness of fungicides in controlling shoot infections", and "Update on fungicide trials on ornamental bulb crops"; **Dean Glawe**, "An overview of taxonomic diversity of powdery mildew fungi in the Pacific Northwest"; **Lindsey du Toit**, "Research trials on diseases of cabbage, carrot, onion, and spinach seed crops in Washington" and "'Black death' of Christmas rose (*Helleb+ores* spp.)".

Lindsey du Toit gave the following presentations at the Annual Meeting of the Columbia Basin Vegetable Seed Association: "Bacterial blight of carrot seed crops" and "Onion seed and gray mold ... research

progress", Moses Lake, Jan 20.

Vance Corum presented workshops in Mount Vernon, Wenatchee and Spokane, Mar 5, 6, and 9, respectively. Among the three sites total attendance reached 92, including a representative from the Capital Press who published a report on the event. The workshops, sponsored by Western

Center for Risk Management Education, aimed to open farmers to the potential for increased revenue by selling direct through farmers' markets, roadside marketing, community supported agriculture, institutional sales, and sales to restaurants and retailers.

PUBLICATIONS

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GRANTS

Clare Coyne and Debra Inglis "Co-dominant markers for rapid selection of Fusarium and Aphanomyces root rot resistant lines in fall-sown pea". Cool Season Food Legume Special Research Grants Program, \$34,000.

Debbie Inglis and Babette Gundersen "Water mold diseases on potatoes" Washington State Potato Commission, \$19,857.

Gary Moulton received the following grants: "Evaluation of Wine Grape Cultivars & Selections in a Cool Maritime Climate". Northwest Center for Small Fruit Research, \$22,863; "Evaluation of Wine Grape Cultivars & Selections in a Cool Maritime Climate", \$14,000, and "Evaluation of Apple Cultivars for Hard Cider Production", \$4,000, Washington Wine Advisory Board; "Alternative Fruit Crops for a Cool Maritime Climate". Northwest Agricultural Research Foundation, \$12,072; "Evaluation of Ornamental Fruit Trees." Washington Dept. of Agriculture - Nursery Advisory Committee, \$8,900.

Gary Moulton received \$20,165 from the WWFRF, to support research in the following topics: "Apple Cultivars for a Cool Humid Climate", "Apple Cultivars for Hard Cider Production", "Pear & Asian Pear Cultivars for a Cool Humid Climate", "Stone Fruit Cultivars for a Cool Humid Climate", "Evaluation & Culture of Unusual Fruit", in addition to funds to help cover maintenance of the WWFRF Demonstration Garden at WSU Mount Vernon. This amount included \$1,500 from the Northwest Cider Society earmarked for the research project on hard cider production.

Craig Cogger "Profitability integrating soil, nutrient, and pest management in small farm vegetable rotations". WSU Safe Food Initiative, \$49,898, (2004-2006).

The following grants were approved for funding by the Puget Sound Seed Growers' Association through the Northwest Agricultural Research Foundation: "Biology and management of leaf spot of spinach seed crops in western Washington", **Lindsey du Toit**, \$7,000; "Efficacy of mustard biofumigants for management of weeds and Fusarium wilt in

spinach seed crops in western Washington", **Lindsey du Toit** and **Tim Miller**, \$6,000; "Verticillium wilt on vegetables in western Washington: Spinach seed crops", **Lindsey du Toit** and **Debra Inglis**, \$4,000.

Debra Inglis and **Lindsey du Toit**, "Verticillium wilt on vegetables in western Washington: Cucumber and pumpkin". Cucurbit industry (through NARF), \$4,000; and "Verticillium wilt on vegetables in western Washington: Potato". Washington State Potato Commission, \$4,000.

Lindsey du Toit, "Evaluation of alternative fungicide seed treatments to benomyl for management of seedborne *Phoma lingam* in Brassica vegetable crops". Vegetable seed companies through the Vegetable Technical Subcommittee of the American Seed Trade Association, \$6,000.

FIELD DAYS & TOURS

2004 Field Day Schedule				
DATE	EVENT	LOCATION	TIME	RESPONSIBLE FACULTY
May 24	Wine Grape Workshop	WSU Mount Vernon	9:00 a.m. – 5:00 p.m.	Gary Moulton
June 10	Strawberry Field Day	WSU Puyallup Farm 5	3:00 p.m. – 5:00 p.m.	Pat Moore
July 10	WWFRF Harvest Day	WSU Mount Vernon	11:00 a.m. – 5:00 p.m.	Gary Moulton
July 13	Vegetable Seed Field Day	WSU Mount Vernon	3:00 p.m. – 6:00 p.m.	Dyvon Havens Tim Miller Lindsey du Toit
July 13	Raspberry Field Day	WSU Puyallup Farm 5	3:00 p.m. – 5:00 p.m.	Pat Moore
July 20	WSU/OSU Turfgrass Field Day	WSU Puyallup Farm 5	9:00 a.m. – 12:00 p.m.	Eric Miltner Gwen Stahnke
July 22	Small Fruit Field Day	WSU Mount Vernon	3:00 p.m. – 5:00 p.m.	Pat Moore
August 14	WWFRF Harvest Day	WSU Mount Vernon	11:00 a.m. – 2:00 p.m.	Gary Moulton
August 18	Potato Field Day (ice cream social to follow 5:30-6:30)	WSU Mount Vernon	4:00 p.m. – 5:30 p.m.	Debbie Inglis Dyvon Havens
August 18	Cucumber Field Day	WSU Mount Vernon	6:30 p.m. – 8:00 p.m.	Tim Miller
August 26	Vancouver Field Day	WSU Vancouver	1:00 p.m. – 4:00 p.m.	Blair Wolfley
September 11	WWFRF Harvest Day	WSU Mount Vernon	11:00 a.m. – 2:00 p.m.	Gary Moulton
September 20	2 nd Annual Small Farms Field Day	WSU Puyallup Farm 1 North	1:00 p.m. – 3:00 p.m.	David Muehleisen Andy Bary Craig Cogger Marcy Ostrom
October 16	Field Day & Open House	WSU Mount Vernon	9:00 a.m. – 4:00 p.m.	Gary Moulton



Craig Cogger, Andy Bary, David Muehleisen, and Marcy Ostrom of the WSU Small Farms Program hosted a Cover Crops field day on February 20 that was attended by 40 farmers. Field trials featured were Biointensive Farming Systems, Alternative Control for Carrot Rust Fly, Fall Cover Crop Trials, Inter-seeded Cover Crops, and Bamboo variety trials.



Twenty-three people attended the Bulb Growers Field Day at WSU Mount Vernon on May 12. After **Debbie Inglis** welcomed everyone, **Gary Chastagner** presented his bulb disease work and plant disease quiz, followed by **Tim Miller's** talk about post-flowering weed control in tulip.

Gary Moulton, and the Western Washington Fruit Research Foundation, hosted a field day and open house at WSU Mount Vernon February 28. The 300 participants attended classes in pruning and grafting with, hands-on practice in the field as a follow-up. Talks were presented on pest control for the home orchard and selecting the best berries for backyard gardens. Carl Elliott, host of a radio garden show, spoke on organic fruit culture and answered questions. Commercial and educational displays were available, as well as sales of scionwood and rootstock for those hobbyists who like to graft their own selection of trees.

PEOPLE

Debbie Inglis was named Interim Director/Interim Assistant Dean at the Mount Vernon Research and Extension Center, effective April 1. This will bring a positive change to administration both at WSU Mount Vernon and WSU Puyallup, with this new position located at the Mount Vernon Unit.

Congratulations to **Renee Priya-Prasad**, PhD student in entomology, who is the 2004 Comstock Award winner for the Pacific Branch of the Entomological Society of America. Renee was also selected as the Department of Entomology's Outstanding Graduate Student for 2004. Renee is working with her advisor, Bill Snyder, on the use of refuges within agricultural fields to conserve beneficial insects and spiders. Her research is carried out in northwestern WA and at the Mount Vernon REU.

Linda Chalker-Scott is the new WSU Extension Specialist in Environmental Horticulture. Dr. Chalker-Scott was formerly Associate Professor, Environmental Horticulture and Adjunct Associate Professor, Landscape Architecture, at the Center for Urban Horticulture, College of

Forest Resources at the University of Washington. She will provide educational programming in Environmental Horticulture throughout the state, with emphasis on the WSU Master Gardener Program and the Landscape/Nursery Industry. She will develop materials to support both traditional and distance educational programs.

WSU Puyallup welcomes **Patricia McAleer**, Program Specialist at USDA-CSREES in Washington DC. Patricia is participating in a one-year part-time educational program through CSREES. Patricia is developing an outreach "Train-the-Trainer" program to help farmers understand and utilize conservation support options available, in partnership with other agencies and groups at the field level, in particular NRCS and FSA. She is working with **David Muehleisen** and the Small Farms program April-June.

Tanyalee Erwin is interning at the Center for Sustaining Agriculture and Natural Resources (CSANR). Tanyalee earned her BA from Northwestern University in Urban Planning/ Economics and her MBA

from PLU. She is currently working on a concurrent BS from UWT, a MS from WSU, focused in Restoration Practices Towards Sustainable Agriculture, and another Masters degree through the DDP program at WSU. Tanyalee's previous work experience includes managing at The News Tribune in Tacoma for 10.5 years. Ms. Erwin is also a published writer and journalist. Welcome Tanyalee!

Becka Warren came to WSU Puyallup in June to assist with **David Muehleisen's** carrot rust fly field research and to organize 'Growing a Regional Food Economy', a food systems forum held this past January in King County. Over the coming year Becka will be working on food systems writing projects, developing a series of county food systems atlases, the Cultivating Success class series. When Becka is not working with Small

Farms, she is working on a Direct Marketing Farm to College Pilot Project for the Cascade Harvest Coalition, and a biweekly online environmental advice column, 'Ask Umbra', at gristmagazine.com.

Welcome to **Dr. Martin Chilvers** from Tasmania, Australia, who is working as a postdoctoral research associate with **Lindsey du Toit** on development of a molecular seed assay for Botrytis species pathogenic on onion. Martin completed his PhD in 2003 on neck rot of onions in northern Tasmania.

GENERAL ANNOUNCEMENTS

Joe Harrison, Kim Patten, Jon Johnson, Craig Cogger, Marcy Ostrom, Art Antonelli, Dave Muehleisen, Andy Bary, and Tim Miller were among the winning teams who received funding from the ARC's Safe Food Initiative Funding Program. ARC set aside \$150,000 for new research proposals to follow up on the work of the Safe Food Initiative. Projects were selected which were consistent with the objectives of the original Safe Food Initiative: 1) improving food safety and quality for domestic and global markets, 2) protecting food crops from devastating pests, and 3) protecting natural resources with economically viable food production systems. The purpose of the recent competition was to foster teamwork among WSU researchers in order to solve important problems related to the safety and security of our food supply. The ARC hopes to make this an annual competition.

In association with the combined annual meetings of the WWhA, NWBGA, and PSSGA in SeaTac, January 7-9, **Carol Miles** became president of the WWhA at the annual meeting; **Jenny Glass** was nominated to the WWhA board for 2004-2006; **Gary Moulton, Brad Goaloch, Dave Muehleisen, and Lindsey du Toit** served on the board of the WWhA; and Gary Chastagner served on the board of the NWBGA.

The Puyallup School District Science Fair was April 16-18. Among the judges were: **Pete Bristow, Vernene Scheurer, Joe Harrison, Gwen Windom, Rita Hummel, Andy Bary, Gwen Stahnke, Tamilee Ninnich**, from WSU, **Peter Ariehtsohn and Alvin Kirbawy** from private industry. Rita and Gwen W. presented a certificate and a check to each winner of a Sigma Xi Award. **Jim Kropf** presented a certificate and a Borders Books gift certificate to the five winners of the WSU awards given for "creativity and excellence". About 306 projects were judged. Several employees also judged projects at Science Fairs at Maplewood and Fruitland Elementary Schools back in March and the Intel South Sound Regional Science Fair held at Pacific Lutheran University on March 20.

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Please send news items for the Autumn edition of *West by Northwest* to Heather Schriver at WSU Puyallup, 7612 Pioneer Way E, Puyallup, WA 98371-4998 or e-mail: schriver@puyallup.wsu.edu. **Deadline for the summer edition is July 26.** Editor: Heather Schriver.

