OSU Oregon State University

Department of Fisheries & Wildlife

News & Views

Summer 2006

Message from the Department Head: Change is in the wind

Much has happened around the department since my last message to you in the spring of 2005. The Department's 70th Anniversary and the Cooperative Fish and Wildlife Research Unit's 60th Anniversary Celebration was a smashing success. Over 120 alumni and friends attended; folks had lots of opportunity to catch up, reminisce, and learn about activities around the Department. We unveiled two new scholarships at the 70th—the Carl and Lenora Bond Scholarship and the Fritzell Diversity Award. We had the opportunity to recognize and thank the alumni, families, friends, and non-profit organizations who support our many scholarships.

The Oregon Hatchery Research Center (OHRC), a cooperative research and education venture between the Oregon Department of Fish and Wildlife (ODFW) and your Department, opened on October 15 to much fanfare and excitement. This exciting program will make Oregon a leader in research and education related to understanding and managing differences between hatchery and wild fishes. See the article on page 10 for more information on the OHRC.

There are many new faces in the Department (see new faculty profiles beginning on page 3). **David Noakes**, Senior Scientist of the OHRC, began his appointment in October. David is an internationally recognized fish ecologist with a broad array of interests. Under our agreement with ODFW, David's appointment is jointly funded by OSU and ODFW. David will direct the activities at the OHRC and will teach classes and mentor students in the Department. In January, **Jessica Miller** began her appointment at the Coastal Oregon Marine Experiment Station (COMES), filling the Marine Fish Ecologist position vacated by **Ian Fleming** two years ago. Jessica's past research has focused on marine fish dispersal using otolith microchemistry. She will continue to employ these techniques among others in determining population ecology of anadromous and marine fishes. Jessica will also teach for our fall term program at Hatfield Marine Science Center (HMSC).

Two new marine mammal scientists with COMES

Continued on page 2

Inside — *Page*

also call Fisheries and Wildlife home. **Marcus Horning**, a pinniped ecologist from Texas A&M, began his appointment in June. Marcus has pioneered innovative telemetry technologies for marine mammals focusing on environmental physiology. He will conduct research on Pinnipeds in the Pacific Northwest as well as elsewhere, and will mentor graduate students. **Scott Baker**, a cetacean ecologist from Australia began his appointment in July. Scott is a world-renowned cetacean geneticist and will serve as the Associate Director of the Marine Mammal Program. He will also teach a class for our HMSC program. These two positions are jointly funded by OSU and the Marine Mammal Program Endowment, emphasizing the importance of endowment support of OSU programs as well as the need to creatively fund faculty positions.

Back on campus two new faculty appointments have helped balance the loss of two faculty members. **Tiffany Garcia** became our Agricultural Wildlife Ecologist beginning in July. Tiffany is an amphibian ecologist whose work has focused on ephemeral wetlands in the Willamette Valley. This is a new position for the Department, which includes agriculture-related research as well as teaching three classes. **Scott Heppell** begins a tenure track appointment in January 2007. Scott is a fish ecologist, who for the past five years has played an important role in our teaching program, both at HMSC and on campus. Scott has also developed a wide-ranging research program in freshwater and marine systems. Scott replaces **Bill Liss,** who retired two years ago. **Doug Robinson**, our Arid Lands Ecologist, and **Frank Burris**, our Watershed Agent in Coos and Curry counties, were both promoted to Associate Professor and granted indefinite tenure in July.

It has not all be positive on the faculty scene. **Bruce Coblentz** retired in June after 31 years of service! Bruce will be missed for a number of reasons. His expertise in mammal ecology, invasive species ecology, and big game management have been important aspects of both our teaching and research programs. Bruce has been a favorite teacher in our program for many years. He has also been an active participant in Department governance, and his counsel will be sorely missed. **Judy Li** also retired in June after 16 years—see the announcement regarding a celebration on page 17. Judy is recognized across campus for her success in collaborative research—the aquatic insects that she studies have formed the base for numerous community and ecosystem studies. Judy has also been recognized for her outstanding teaching accomplishments and her innovative course, Multicultural Perspectives in Natural Resources. I will also miss her thoughtful discussions during faculty meetings. Finally, **Dick Schmitz**, our Landscape Ecologist resigned his appointment in March. We hope to be able to begin searches for one or both of these positions in the fall. Also departing was **Kelly Wildman**, who served as an office specialist in the department working on special projects for over 20 years. Kelly left to focus full-time on her webpage development company. We will miss her smiling face around the department, but are fortunate to have been able to contract with her to handle our Department website.

On the unsettling side, Nash Hall has received a $1.6 million dollar grant for earthquake readiness upgrades. The building was designed in 1968, before stricter building codes were put in place to protect against earthquake damage. We all hope the work gets completed before the "big one" hits.

We are preparing for a 10-year program review in which our teaching, research, and extension programs will be examined for quality and relevance. These reviews always help identify areas where we can improve what we do and they also reaffirm areas of excellence. If you have comments or suggestions about potential changes in our programs we would be most interested in hearing them.

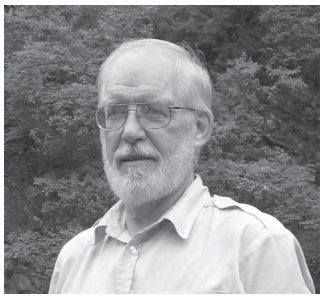
Dan Edge

News and Views is an alumni newsletter published annually by the Department of Fisheries and Wildlife at Oregon State University.
Editor—Jim Hall
Comments, letters, and suggestions are welcome and should be addressed to: Editor, *News and Views*, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR 97331-3803 or james.hall@oregonstate.edu

The **Registry of Distinguished Graduates** (see page 8) is intended to recognize a select few of our alumni who have made major contributions to the field of fisheries and wildlife, and who have achieved distinction in a career in natural resource education, research, or management. Please consider nominating someone from among our graduates with at least 20 years of experience in the field. Nominations should describe the highlights of the nominee's professional career and could include a resume. A committee composed of faculty and alumni will review the nominations and select the next year's additions to the Registry. Please send your nominations to Dan Edge by December 15, 2006.

Meet the New Faculty

David L.G. Noakes



I was born and raised in southern Ontario, Canada. My B.Sc. and M.Sc. degrees were from the Department of Zoology, University of Western Ontario. My M.Sc. degree was on sunfish ecology and behavior in the laboratory of Miles Keenleyside. My Ph.D. degree was with George Barlow at the University of California, Berkeley on the development of behavior in cichlid fishes. My first academic position was in the Department of Zoology at Edinburgh University in Scotland. I was then a faculty member of the Zoology Department (now Integrative Biology) at the University of Guelph (Assistant, Associate, Professor) until I moved to Oregon State University. During my time at Guelph I served as Acting Chair of the Department of Zoology, and I was founding Director of the Axelrod Institute of Ichthyology. I have been a Visiting Professor at Oxford University, Kyoto University, the University of California at Davis, the University of Iceland, the University of California at Berkeley, Holar University College in Iceland, Nagasaki University, and Huazhong Agricultural University in Wuhan, China. My current position is Professor in the Department of Fisheries and Wildlife and Senior Scientist and Director of the Oregon Hatchery Research Center.

While at the University of Guelph I served a number of terms on Academic Senate and chaired several University Committees, including the University Library Committee, the International Committee and the Chancellor's and President's Scholars Committee.

I am Editor-in-Chief of the international journal Environmental Biology of Fishes, and Editor of the Fish and Fisheries monograph series, both published by Springer Verlag. I was a founding member of the Ontario Ecology and Ethology Colloquium, and the biennial conference on Ecology, Ethology, and Evolution of Fishes. I have given invited lectures and seminars at a number of institutions and scientific meetings, including most recently the Keynote Address at the Fifth International Charr Symposium in Reykjavik, Iceland. I a member of the American Fisheries Society, the American Society of Ichthyologists and Herpetologists, Sigma Xi, and the Canadian Society of Zoologists. I have served on Advisory and Review panels for a number of agencies and commissions, including the Great Lakes Fishery Commission, the Endangered Species Recovery Fund of the World Wildlife Fund of Canada, the Department of Fisheries and Oceans Canada, and the Natural Sciences and Engineering Research Council of Canada.

My research interests include the development and evolution of behavior, especially social behavior, foraging behavior and reproductive behavior. My research is mostly concerned with salmonid fishes, but I have also conducted research on sturgeons, whitefish, killifish, eels, cyprinids, lampreys and centrarchids. My recent publications include studies related to conservation and restoration, environmental impact, fisheries management and systematics, as well as behavior, ecology and evolution. I also have an active interest in aquaculture. I was a Member of the Executive Committee of the M.Sc. Aquaculture program at the University of Guelph. I taught undergraduate and graduate courses and supervised graduate students in the program.

In addition to my international editorial and publishing activities, my teaching and research programs also involve international contacts and collaborations. I was responsible for establishing a formal Academic Exchange Agreement between the University of Guelph and four counterpart institutions in Iceland. I was also responsible for establishing a formal Academic Exchange Agreement between the University of Guelph and Nagasaki University in Japan. I was recently instrumental in establishing formal Memoranda of Agreement between Oregon State University and three counterpart universities in Iceland.

We are well into the operations of the Oregon Hatchery Research Center, since the official opening in October 2005. Education and outreach are important functions for us, and we have already provided internship opportunities to a number of students from OSU and the Oregon Coastal Community College. We provide tours for organizations, special interest groups and agencies, as well as the general public. Our research will focus on comparisons of wild and hatchery fish, the genetic and environmental influences on behavior, ecology and life history, and how best to operate and manage hatchery and wild fisheries in Oregon. We have the facilities for

Continued on page 5

Jessica Miller

I was born and lived outside of Boston, Massachusetts until I was 10. My initial interests in marine biology began with trips to the New England Aquarium, Cape Cod, and high school marine science course in the U.S. Virgin Islands. A family move took me to Evanston, Illinois, where I attended high school.

Once given the choice, however, I migrated westward to Missoula, Montana to attend the University of Montana, where I received a B.A. in zoology in 1989. I chose to migrate further west to Seattle and the University of Washington's School of Fisheries and Aquatic Sciences, where I received a M.S. in Fisheries in 1993. My thesis research focused on juvenile Chinook and coho salmon use of natural and created estuarine sloughs. I then moved on to work with the Tillamook Bay National Estuary Project, a cooperative local, state, and federal effort, and The Willapa Alliance, a private, non-profit organization located on the coast of Washington. In both of these positions, I worked on estuarine and freshwater restoration design, implementation, and assessment, with an emphasis on Pacific salmon.

I then moved to Charleston, Oregon and the University of Oregon's Institute of Marine Biology, where I worked on my doctoral studies focused on transport, dispersal, and exchange in coastal fishes. After completion of my Ph.D., I received an Oregon Sea Grant with Dr. Alan Shanks (UO) to conduct post-doctoral studies that expanded components of my dissertation work examining local and regional patterns of dispersal and exchange in Pacific rockfish.

My general research interests involve the ecology and evolution of life history diversity in fishes and the development and maintenance of that diversity. My research has focused on larval dispersal and transport, population connectivity and structure, and the use of estuaries by larval and juvenile marine and anadromous fishes. I have combined techniques, including otolith microchemistry, genetic, and time-series analyses, to address these topics. I am interested in continuing to use diverse methods to address basic questions in fish ecology while also providing information critical for management and conservation efforts. Currently, I am finishing up a research project examining the structure and chemistry of fish otoliths, or ear bones, to provide information on mixing and migration in Pacific rockfish. I am also collaborating with researchers at the University of Washington to quantify patterns of estuarine rearing and feeding habitats in Chinook salmon from the Columbia River, using elemental analyses of otoliths.

When not working, I love walking the beach and hiking with my husband, Ed Backus, Vice-President for Fisheries at Ecotrust, and my German Shepherd, Kiger. We have recently acquired a drift boat and are hoping to learn the waters of the Alsea River. I am an avid swimmer and have had the pleasure of diving and snorkeling on tropical reefs in Australia and Hawaii. My other recent fish-related travels have taken me to Chile and Alaska.

I am excited to be part of OSU, the Department of Fisheries and Wildlife, and COMES and believe that my research interests are well-suited to the mission of the experiment station. My research interests involve the ecology and evolution of life history diversity in marine and anadromous fishes and the development and maintenance of that diversity. Variation in early life history traits, such as larval duration in marine fishes and migratory timing in juvenile salmonids, are important factors in the evolution and maintenance of local populations and thus relevant to management and conservation of Oregon's fisheries resources. The research program I am developing at OSU aims to provide empirical information on individual variation within an ecological context using a multi-faceted approach, including field ecology, laboratory experiments, and analytical chemistry. Currently, my focus is on two main areas, including quantifying life history variation in Chinook and coho salmon and the early life history and population connectivity in Pacific rockfish. One project, which is part of an interdisciplinary effort with NOAA-NMFS, involves a three-year effort to examine the role of the Columbia River Estuary, the river plume, and ocean conditions in the early ocean growth and survival of juvenile Chinook and coho salmon.

I would be happy to talk about my current and future research plans, fisheries ecology, or fishing with anyone who is interested. My office is in the Public Education Wing #13; 541-867-0381; Jessica.Miller@oregonstate.edu. Please stop by…

Tiffany Garcia

The Jade Plant (*Crassula argentea*) is a succulent originating from South Africa. It can be an easy plant to cultivate indoors, and with proper care, can prosper in such meager environs as laboratories, dormitories, and academic offices. The problem with Jade Plants is that they come with baggage. To kill a Jade means seven years bad luck; but to successfully raise a Jade means a lifetime of financially prosperity. If one attaches significant weight to this prophecy, caring for a Jade can have reasonably important lifestyle implications. It is perhaps not a good thing that I should have a Jade. This is a moot point, however, because Phil Rossignol gave me a cutting from his Jade just yesterday. The reasons why I should not have a Jade should become apparent as you continue reading this departmentally sanctioned biography.

I've officially lived in only three of the United States, but that is a deceptive number. California is a really big state. I grew up in Northern California, (Humboldt County) went to school in Central California (UC Davis) and worked in Southern California before heading off to graduate school. If the states along the west coast were of a similar size to the states on the east coast, I would be considered a rolling stone rather than a California elitist. I left the west coast to attend graduate school and traveled on the academic freeway to the great state of Kentucky; home of the Wildcats, bluegrass, and the Derby. I studied with Andrew Sih at the University of Kentucky for five years and upon completion of my doctorate returned to the west. Certain inevitable tragedies of such a transient lifestyle include high houseplant mortality. On my move to Oregon State University to begin my postdoc with Andrew Blaustein, I promptly killed two plants (death by desiccation), which is one of the many reasons why I should not be the owner of a Jade.

Acknowledging my lack of a green thumb, I've mainly used vertebrate systems to explore the ecological questions that interest me. My research examines the direct and indirect effects of environmental stress on aquatic communities. My focal species of interest are larval amphibians, and I often work in ephemeral ponds and streams. I study how amphibians react to multiple stressors, such as predation risk, competition, and ultraviolet radiation. I'm also interested in population differences in defense strategies, and work with amphibian populations from the Oregon coast, the Willamette Valley, and the high Cascade Mountains. This large spatial scale allows me explore large areas of Oregon, and I think this state will keep me busy for many years to come.

Because this is a new position, I can't say too much about the work at this point. I do know that I will be focused on agricultural ecosystems and will be involved in extension work. I will be teaching several courses, including Wildlife in Agricultural Ecosystems and Principles of Fish and Wildlife Conservation.

Though living in Corvallis will force me to learn how to cook (there is a dreadful lack of delivery options here), PAC-10 basketball and Le Patisserie should keep me happy.

I plan on taking very good care of my Jade plant. I am a superstitious person and this psychological pitfall prevents me from disregarding Jade lore. If my plant prospers, then so will I. While that may sound ridiculous coming from a scientist, one must consider the similarities between my Jade and me. For example, we both sometimes retain water. We like direct sun. We are both cut from strong stock and guided by principled mentors. We appreciate the opportunity to grow with the Department of Fisheries and Wildlife, and have enjoyed meeting everyone here. We are lucky and proud to be part of this group, and with a little water and unfettered internet access, we should do quite well.

Noakes (*cont. from page 3*)

research on every scale, from molecular to landscape, with a number of native fishes. We have already attracted interest and visits from across Oregon, the rest of North America, Iceland, the Netherlands, and China. We have active research collaborations with colleagues here at OSU and elsewhere in the state, on topics as diverse as benthic invertebrates, stable isotopes, stress physiology, and stream hydrology.

Scott Baker

I grew up in Birmingham, Alabama, where, by way of contrast, I developed a great appreciation for the sparkling beaches and clear waters of the Gulf of Mexico a few hundred miles to the south. Some of my earliest memories are of the sunburns and sandspurs that punctuated our otherwise idyllic family holidays along this coast. It was during these visits that I became fascinated with the life in the sea, particulary the bottlenose dolphins we could sometimes see swimming just offshore of the sandbars. In pursuit of this fascination, I attended a small undergraduate college in Sarasota, Florida (now New College, the honors college of the University of Florida system), where I worked as a research assistant on a study of wild bottlenose dolphins in Sarasota Bay. This study (still ongoing) is one of the first to use photographs of natural marking for long-term identification of individual dolphins and radio tags to track their short-term, local movement.

After completing a Bachelor of Arts and an honors thesis in Environmental Studies at New College in 1977 and a year of more conventional science coursework at the Evergreen State College (Olympia, Washington), I enrolled in a Ph.D. program in Zoology at the University of Hawaii, Manoa. I spent the next six years observing and photographing humpback whales, first on the breeding grounds around Hawaii and then on their feeding grounds in Glacier Bay and the inside passage of southeastern Alaska. During this time, I also met my wife, Anjanette, who was completing her M.Sc. in biological oceanography at University of Hawaii, working on magnetic orientation in the green sea turtle. My Ph.D. thesis, completed in 1985, described the social organization and migratory population structure of humpback whales based on photo-identification records of individual whales identified throughout the central and eastern North Pacific.

As a postdoctoral fellow at the Smithsonian Institution and the National Cancer Institute, I had a unique opportunity to train in the rapidly emerging fields of molecular ecology and conservation genetics. Along with a re-emergence of medieval technology (a crossbow) to collect small skin-biopsy samples, these powerful new molecular methods allowed me to begin answering questions developed from my demographic studies of humpback whales. Following my interest in the worldwide population structure of humpbacks and other great whales, I accepted a position in the School of Biological Sciences at the University of Auckland in 1993. Along the way, Anjanette and I were joined by a son, Kai, and a daughter, Neve´. My position at the University of Auckland offered a unique opportunity to study New Zealand's endemic marine mammals as well as the many species with distributions or migrations throughout the South Pacific. Over the years I directed or supervised studies of genetic diversity and population structure of Hector's dolphins, Maui's dolphin (a subspecies of Hector's), bottlenose dolphins, dusky dolphins, spinner dolphins, pilot whales, killer whales, beaked whales, southern right whales, sea lions, and fur seals. In 1994, I became embroiled with the International Whaling Commission as a result of early effort to use molecular methods (now referred to as DNA taxonomy) to identify the species origin of 'whalemeat' sold in commercial markets of Japan and Korea. For more than a decade, I have traveled regularly to both countries, documenting the unregulated sale of products from humpback, western gray, fin, sei, Bryde's, and sperm whales. My interest in the problem of trade in endangered species led to development of a web-based program for molecular taxonomy: www.dna-surveillance.auckland.ac.nz, and the discovery of a new species of beaked whales, *Mesoplodon perrini,* the first new species of cetaceans described in 15 years.

My new position with the OSU Marine Mammal Program and the Department of Fisheries and Wildlife offers exciting possibilities to combine my interest in genetic and demographic approaches to the study of whales and dolphins in both the North and South Pacific Oceans. The Program's reputation for technical innovation and commitment to conservation has established a solid foundation to support new faculty and the integration of the new disciplines they represent. I expect the Program to play an increasingly important role in contributing to our basic understanding of marine mammal science and to providing multi-disciplinary solutions to the problems facing these species.

Markus Horning

I grew up as a 'UN-brat'. My dad worked for the Food and Agriculture Organization of the United Nations as a developer of irrigation systems for agricultural development. Although I was born in Germany, I grew up in Nepal, Afghanistan, and Italy. After finishing high school in Rome in 1978, I started my academic career in a distinctly non-biological field, pursuing undergraduate studies with a major in Physics at the University of California San Diego. During my freshman year, I chanced into a part-time job as a pool cleaner and general factotum in the laboratory of Dr. Gerald Kooyman at the Scripps Institution of Oceanography, UCSD. The experience in Jerry's lab was transforming, in particular when I had the opportunity to participate in a one-year overwintering study of Weddell seals in Antarctica, as part of a small team of four researchers. That year, 1981, convinced me to switch to Biology, and to focus on the study of diving animals, pinnipeds (seals, sea lions, and walruses) in particular.

As a result of the one-year absence from the U.S. for the Antarctic project, I lost the scholarship that allowed me to attend UCSD, and moved to Germany—my country of origin—for the first time as an adult. I completed my studies in Biology at the University of Freiburg in 1988. Through my Scripps contacts I then met my dissertation advisor, Fritz Trillmich, at the Max-Planck Institute for Behavioral Physiology at Seewiesen, Germany. After a second brief Antarctic stint studying emperor penguins in 1989, I was able to return to my passion—the study of pinnipeds—by conducting my dissertation research under Fritz' guidance, on the ontogeny of diving in Galapagos fur seals. After completing my Ph.D. in 1992, I returned to Jerry's laboratory at Scripps as a postdoctoral researcher. The ensuing studies of cormorant and penguin diving behavior and physiology broadened my background, and introduced me to the importance of comparative research approaches. In 1996 I took on a soft-money position as Assistant Research Scientist at Texas A&M University at Galveston. After a brief period of contract work for the National Marine Mammal Laboratory (NMFS) in Seattle in 1998, I returned to Galveston in 1999. It was there that I met my wonderful wife Lisa. Lisa is a Houston native, and graduated with a Bachelor in Marine Biology from Texas A&M in 1994. Even though we share a background in marine sciences, of all places, we met in a bowling alley, and neither of us is into bowling! Lisa completed her Master's degree in Marine Resource Management at Texas A&M in December of 2005.

Over the course of my prior research I realized that, paradoxically, the use of technology has advanced at a far greater pace for the use and extraction, than for the assessment and protection, of marine resources. To address that issue, I founded the Laboratory for Applied Biotelemetry & Biotechnology at Texas A&M University in 2000. Since 1996, my research has centered on Weddell seals in Antarctica and Steller sea lions in Alaska. I initiated two large projects on Stellers that are continuing to date, with the participation of the NMFS, Alaska Department of Fish & Game, and the Alaska Sea Life Center in Seward, Alaska. Both of these long-term projects will provide vital life-history data on the Steller sea lion, a declining and endangered species in the North Pacific and Bering Sea region. These projects combine very divergent research approaches, the use of specifically developed implantable telemetry devices, with non-invasive estimation of body mass and body condition by remote photogrammetry, in a new experimental approach.

Through my new position as Pinniped Ecologist with the OSU Marine Mammal Program and the Department of Fisheries and Wildlife, I will continue to apply technological innovation to new experimental designs and analytical methods. In an example of this approach, a new NSF-funded project will take me to Antarctica this fall (it will be my 9th trip down South) to lead a team of researchers from Oregon State, Texas A&M, and the University of Alaska to investigate the suitability of diving mammals as models to study phenomena and adaptations related to aging. I am looking forward to developing multi-disciplinary, integrative approaches to basic science, conservation and management of marine mammals, in collaboration with my new colleagues within this truly outstanding program.

Registry of Distinguished Graduates

A committe chaired by Grant Thompson met and voted to add the following graduates to the Registry:

Gordon H. Reeves, B.S. 1973, State University of New York – Oswego; M.S. 1978, Humboldt State University; Ph.D. 1985

Gordie has been conducting research on the freshwater ecology of anadromous salmon and trout for over 25 years. He is a Research Fish Biologist with the USDA Forest Service, Pacific Northwest Research Station, in Corvallis, Oregon. He began his career as a fish behavioral ecologist and has progressed through a series of studies to become recognized for his broad approach to stream and landscape ecology and conservation biology. Gordie was the leader or co-leader of federal efforts to develop conservation plans for listed fish including the "Gang of Four", PacFish, the Forest Ecosystem Management Assessment Team (FEMAT), and the Tongass Land Management Plan in Alaska. He currently is a co-leader of the Coastal Landscape Analysis and Modeling Study (CLAMS), which is a multidisciplinary effort to develop a model to evaluate the aggregate ecological and economic impact of forest management policies on private, state, and federal lands in the Oregon Coast Range. These efforts have resulted in major changes in the management of aquatic ecosystems on federal and other lands in the western U.S. and Alaska. He has received much recognition for his work, including twice being named as Conservationist of the Year by the Pacific Rivers Council. He has also been given the USDA Forest Service Chief's Natural Resources Award and Rise to the Future Award and the Secretary of Agriculture's Award for Outstanding Performance. He has courtesy faculty appointments in the Department of Fisheries and Wildlife and in the Department of Forest Resources at OSU and in the Department of Fisheries at Humboldt State University. He has served as major professor for more than 15 students at OSU and has been on several graduate student committees at OSU and Humboldt State University.

Bruce G. Marcot, B.S. 1977, Humboldt State University; M.S. 1978, Humboldt State University; Ph.D. 1985

Bruce is a research wildlife biologist with the Ecosystems Processes Research Program of USDA Forest Service in Portland, Oregon. He participates in applied science research and technology application projects dealing with old-forest management, specifically on modeling of rare and little-known species, assessment of biodiversity, and ecologically sustainable forest management. He has served on numerous regional assessment teams including the Interior Columbia Basin Ecosystem Management Project and the Forest Ecosystem Management Assessment Team. Bruce regularly serves as science advisor to multiple resource management agencies on species viability, modeling, and biodiversity conservation programs. He has extensive experience with wildlife-habitat relationships research and modeling. Recently, he has coauthored three textbooks on the topic; developed an on-line advisory system for managing snags, down wood, and other wood decay elements for wildlife in forests of Washington and Oregon; developed an assessment framework and analysis of integrated fish and wildlife in the Columbia River Basin for the Northwest Power and Conservation Council; and conducted field research on terrestrial invertebrates, lichens, bryophytes, and vascular plants in old forest remnant patches and disturbed sites in the Washington Cascades and eastern Oregon. He has extensive international experience, including currently aiding community forest planning in Congo, Africa, and has served as Chief Ecologist on a sustainable land use planning project spanning Far East Russia and China; on a biodiversity planning team in India; and as modeling advisor on a caribou-wolf-moose project in British Columbia, Canada. He has also worked on an international team of researchers and managers on wetland and grassland restoration in Inner Mongolia, China, and has engaged in personal wildlife research and ecological travels in southern Africa, Australia, New Zealand, sub-Antarctica, Amazonian Bolivia, Ecuador, Costa Rica, Caribbean, Mexico, and elsewhere. He has received considerable recognition and a number of awards for his work.

David A. Armstrong, B.S. 1970, University of California, Irvine; M.S. 1974; Ph.D. 1978, University of California, Davis

David's research and graduate student program has been focused on crab and other shellfish life history and ecology from the Bering Sea through central California. As a new faculty member in the School of Fisheries in 1979 he developed a number of programs

that are still active to characterize the juvenile nursery role of estuaries in production of adults targeted in coastal fisheries. Along the way, many applied questions regarding anthropogenic impacts on estuarine resources and habitats have been addressed in research, especially ongoing perturbations caused by dredging, application of pesticides to enhance oyster culture, and effects of exotic species on native communities. His work has led to several major mitigation programs based in systems ecology and interplay between crab and bivalve habitat, and elucidation of the importance of expansive intertidal areas in support of high crab biomass. In the Bering Sea he and colleagues have studied larval ecology of snow and king crabs relative to spatial distribution of spawning stocks, physical forcing, shifts in predator populations and long-term trends reflected in major regime shifts. This work continues among a team composed of biologists and physical oceanographers to determine causal relationships between abiotic and biotic interactions that affect year-class strength and future fisheries. Since 1998 David has been Director of the School of Aquatic and Fishery Sciences at the University of Washington. The change in name reflects major transformation of the School to include a much wider array of disciplines beyond traditional strengths in fishery biology and management. He helped guide the faculty through implementation of a strategic plan to include new fields such as molecular ecology and functional genomics, expansion of freshwater ecology, reinforcement of strengths in quantitative sciences, and a more prominent role of conservation biology as a major ethic in education and research of the School. Undergraduate enrollment in the major has doubled in recent years and over half the tenure-track faculty have been hired since 2001. David is proud of his many former graduate students (20 M.S. and 16 Ph.D.) who work as fishery scientists and faculty in agencies and universities across the country and in South America. Their creativity, enthusiasm, and professional achievements while students have been the underpinning of his research over the years.

Wayne Wurtsbaugh, B.S. 1970, University of California, Davis; M.S. 1973; Ph.D. 1983, University of California, Davis

Wayne is Professor in the Department of Aquatic, Watershed and Earth Resources at Utah State University. His career was inspired by mentors Gerry Davis, Charles Warren, and Hiram Li. His work has emphasized many aspects of limnology, ranging from the behavior and bioenergetics of fish in lakes to problems of limiting nutrients and nutrient cycling. Recently, he has developed an interest in landscape limnology and is collaborating with stream ecologists to study how lakes and rivers interact to control ecosystem processes in mountain watersheds. His research has taken him to many important lakes of the world, among them Lake Titicaca, Peru; Lake Tahoe; and most recently the Great Salt Lake, Utah. His research has included both applied studies related to fisheries management and eutrophication, and basic research on fish ecology and ecosystem processes. He has been Principal or Co-Principal Investigator on 11 grants from the National Science Foundation. He has published over 100 papers, including 60 in peer-reviewed journals. Wayne has been a Fulbright Scholar in Spain, an Associate Editor of the Transactions of the American Fisheries Society, Chair of the Education Committee of the American Society of Limnology and Oceanography, and is currently a National Representative of the U.S. Section of the International Society of Limnology. His undergraduate and graduate teaching at USU has included courses in Freshwater Ecology, Water Pollution, and Fish Ecology.

William J. Liss, B.S. 1969, Pennsylvania State University; M.S. 1974; Ph.D. 1977

Bill is an emeritus professor of fisheries in the OSU Department of Fisheries and Wildlife, where he has been a member of the faculty since 1977. His research interests have centered on salmonid ecology and restoration, land-use impacts on stream habitat and stream fishes, effects of non-native fish on native biota in high-elevation lakes, and watershed and stream classification. Bill has authored or co-authored over 60 scientific publications. He has served on numerous scientific advisory panels, in which capacity he has co-authored over 70 scientific reviews and reports related to salmon restoration in the Columbia River. Bill's career has consistently been distinguished by his talent as a teacher. He has supervised nearly 30 M.S. and Ph.D. students, and taught at both the undergraduate and graduate levels. Three times he was named to the College of Agricultural Sciences Registry of Distinguished Teachers, and in 1992 he received the College of Agricultural Sciences highest teaching honor, the R.M. Wade Award.

Oregon Hatchery Research Center

The Oregon Hatchery Research Center is a remarkable collaboration between the Oregon Department of Fish and Wildlife and the Department of Fisheries and Wildlife at Oregon State University. The Center was officially opened at a public ceremony in October 2006. The Center was funded by ODFW, OSU, and the Oregon Watershed Enhancement Board. It is located on Fall Creek, at the site of the former ODFW Hatchery, near the Coastal Range and the small town of Alsea. The Center is staffed by three permanent ODFW employees: Ryan Couture, the Facility Manager; Joseph O'Neil, the Assistant Manager; and Joyce Mahr, the Technician. David Noakes is the Senior Scientist and Director, and also a Professor in Fisheries and Wildlife at OSU. The Advisory Committee for the Center is composed of 15 members, representing a range of stakeholders: hydrologists, stream ecologists, forest engineers, educators, federal and state governments, as well as local residents. The Committee reviews research and educational outreach proposals and advises the Director and staff on operations.

The mission of the Hatchery Research Center is to understand mechanisms that may be creating differences between hatchery and wild fish. It will determine (1) the process and rate by which wild fish may change in the hatchery environment within and across generations; (2) the process, rate, and pattern by which hatchery-produced fish adapt to the natural environment at each life history stage; and (3) the possible genetic and ecological consequences of hatchery fish and their releases on native fish at each life history stage.

Wild salmon runs are currently threatened or endangered in much of their ranges in Oregon, Washington, and Idaho. Four reasons for their decline are commonly offered: habitat loss, harvest, dams, and competition from hatchery fish. Today, more than 70% of Oregon's salmon start life in a hatchery. Thus, hatcheries have stopped and even reversed the population decline and helped maintain viable fisheries, but many questions remain. Do hatchery fish spread disease to their wild counterparts? Do they out-compete wild fish for food and habitat? Do they contaminate genetic fitness for surviving conditions in a particular watershed? These and many other questions are being addressed at the Hatchery Research Center.

The research at the Center is interdisciplinary and collaborative. The Center will develop approaches to managing hatchery fish that conserve and protect native fishes. This will be accomplished by determining hatchery breeding, rearing, and release practices that allow hatchery-propagated fish to both contribute to fisheries and facilitate the conservation and recovery of naturally produced native fish. Possible effects to natural ecosystems associated with differing types and levels of hatchery production will be identified, as will approaches to managing these effects. Hatchery practices that may need to be altered in response to changes in the natural environment and other external factors will also be identified. Research conducted at the Center will apply to all areas of Oregon, Washington, California, and Idaho where wild salmon are endangered or threatened.

Sampling fish in one of the simulated stream channels

A key feature of the new state-of-the-art facility is its four natural-style simulated steam channels that make it possible to observe wild and hatchery fish together under controlled experimental conditions. In addition, the Center has the capability to study projects at scales from the molecular to watersheds and landscapes in a range of controlled laboratory and rearing facilities. The Center has already attracted visitors and collaborators from throughout Oregon, across the USA, Canada, the Netherlands, New Zealand, Iceland, Central America, and China.

An important part of the Center's mission is to educate the public on the relationship between hatchery and wild fish; the connection between fish and watershed, estuarine, and ocean systems; and the implications for fish management and stewardship. The Center will do this by: (1) providing educational facilities and programs for K-12 students; (2) designing and managing the facility to provide an

environment of passive and active learning for visitors; (3) conducting undergraduate and graduate programs and classes at the facility; and (4) providing opportunities for educators and others to use the Center for meetings, workshops, and programs that further public understanding of the relationship between fish and watershed ecosystems. The Center will create a unique educational environment for students K-12, undergraduate and graduate, and the general public. It will serve as a focal point and meeting place for watershed councils, conservation groups, commercial fishers, and angler groups to participate in workshops and other information sharing.

David Noakes

Kudos

A number of faculty, alumni, and students were recognized during the last year, among them:

Selina Heppell is one of 18 academic environmental scientists from the U.S. and Canada who have been awarded a 2006 Aldo Leopold Leadership Fellowship. As a Leopold Leadership Fellow, Selina will participate this year in intensive training that includes sessions on how to communicate science effectively to non-scientific audiences, including the media and policy makers.

Judy Li received a regional award for Excellence in College and University Teaching from the U.S. Departament of Agriculture and is one of only three OSU faculty to have ever received this award.

Aaron Holmes is one of only two Fish and Wildlife students in the whole country to get a National Science Foundation fellowship this cycle.

Dr. John Briggs, '43, one of our Distinguished Graduates, received the Inaugural Alfred Russel Wallace Award from the International Biogeography Society in 2005. The award will be presented every 2 years to a distinguished scholar for a lifetime of achievement in biogeography. Jack's award citation notes that "the premier modern synthesis of marine species distributions arrived with Briggs' 1974 classic *Marine Zoogeography* . . . Most of the issues currently being addressed by molecular biogeography and phylogeography are explicitly formulated in *Marine Zoogeography*, and the number of phylogeographic studies that cite Briggs (1974) is beyond counting". The editorial announcing the award notes "in other words, it took about three decades for the science of biogeography to mature to the point that it could rigorously address the issues that Jack presented in 1974!" (The second award will be made in January 2007 to Dr. Jared Diamond, author of *Guns, Germs, and Steel*; and *Collapse*.)

Another Distinguished Graduate, **Jim Rearden**, '48, received an Honorary Doctorate from the University of Alaska in recognition of his contributions to the state. The award was presented at the May 15, 2005 commencement ceremony.

Dr. Jack Helle, Ph.D. '80, received the Distinguished Service Award for 2004 from the American Institute of Fishery Research Biologists. His service included Alaska District Director, and President of the organization.

At the September 2005 Annual meeting of The Wildlife Society, **Chuck Meslow**, retired Leader of the Cooperative Wildlife Research Unit, was made the 56th recipient of the Leopold Medal. This is the highest award given by the Society. It has previously gone to former Department Head **Tom Scott** and courtesy faculty member **Jack Ward Thomas**. Also honored at the meeting for best edited volume for the year was *Pronghorn: ecology and management*. It was edited by Bart O'Gara and **Jim Yoakum**, M.S. '57.

Doug Markle had two wines that received awards at the 2006 Amateur Wine Makers Competition at the Newport Wine and Seafood Festival. His 2002 Pinot Noir won a gold medal, the only Pinot Noir to get a gold; his 2004 Pinot Noir won a silver medal. He claims it was the OSU grapes and is now reconsidering his retirement plans.

Kudos to faculty in the Department for their success in receiving research grants and contracts. The total for fiscal year 2005-06 was $6,430,000. This put us in a virtual tie for second among all departments in the University. Good going, folks!

And more kudos to the more than 200 alums, friends, faculty, and organizations that contributed about $80,000 to the Department for fiscal year 2005-2006. See the list on page 12 [and your editor's apologies if we have left anyone off the list—it turns out to be rather difficult to get a complete and accurate list of all our donors]

Thank you, Donors

The following individuals and organizations generously supported the Department with donations received between July 1, 2005 and June 30, 2006

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Remembering Charles Warren

Dale R. McCullough, M.S.'60, a Professor in the College of Natural Resources at U.C.Berkeley, sent us a thoughtful reminiscence of Charles Warren

When I arrived at the Oregon Cooperative Wildlife Research Unit for a M.S. in January 1958, the leader, Art Einarsen, immediately sent me to the H. J. Andrews Experimental Forest on the Blue River. I was a greenhorn fresh from a B.S. from South Dakota State. Art needed someone to be at Blue River, and I was handy. A couple days later Art headed to Mexico to study black brant (I saw him again for one day the next year before he retired and disappeared), so Homer Campbell, the fisheries assistant Coop leader, drove with me up to the isolated Camp Lucky Boy (Boy Scout) cabin on the Blue River (now at the bottom of a reservoir), and left me with really helpful advice: "Good luck."

A year later, when I showed up on campus as told, I was informed that Chuck Warren would be my academic advisor. I went in to see Chuck and he asked who I was, and then—just making conversation—when I had arrived (expecting to hear a day or two earlier). When I said a year ago, he reared back in his chair in amazement, and asked me where I had been? I told him, doing my master's thesis research on deer in the H. J. Andrews Forest. As my sad tale of academic orphaning unfolded, he became apoplectic. I said profound things like, "…uh, well… and yes, but…" Finally he calmed down and assured me that it was not my fault I had been stuck me off alone in the mountains (I didn't mention the woodrats that kept me company) with no direction. He finished with the upbeat thought that maybe some of my work could be salvaged—which he obviously didn't really believe.

Despite that inauspicious beginning, over the next year a close intellectual bond evolved between us. I showed him my systematically collected data, and even pulled out a clever insight or two. I knew the deer literature—there being nothing else to do all those long nights alone at Lucky Boy cabin but read by a kerosene lamp—and figured out how to ask reasonable scientific questions. Most of the deer literature of the time was natural history stories unsupported by quantitative data, much less statistical tests, and I knew there had to be something better.

Over the following year I took every course I could from Chuck, and he continually stretched my mind, and connected things in insightful ways. Some of the other graduate students considered Chuck esoteric, but I found him challenging and inspiring (not withstanding his hang-up with fish). He showed me the fine art of thinking and questioning, including one's own beliefs. He was a fresh new window into scientific thought and objectivity, not buying hypotheses but testing them, and questioning conventional wisdom that, often as not, was far more convention than wisdom. Later I went to work for Chuck at Oak Creek Laboratory, doing intellectual things like carpentry, redirecting stream channels, and solving practical problems of keeping fish alive in aquaria.

He introduced me to quantitative population dynamics, especially William Ricker, but also Beverton and Holt and other fisheries modelers of the time. This was an area total absent from the wildlife literature. It woke me to statistic inference in courses with Jerry C. R. Li (I still have his text from the course), and experimental design in courses with Lyle Calvin. It is safe to say that Chuck was a significant influence on my life ($P < 0.01$), perhaps the single most influential guiding light in my career, including a large number of heavyweights later as a Ph.D. student at Berkeley, and a professor at Michigan and Berkeley.

When I completed my master's thesis I applied for jobs, and got a wonderful offer from Arizona Fish

Continued on page 14

and Game. I proudly took the letter to show Chuck, thinking something like, "Hey, the kid from Lucky Boy Gulag didn't do too badly, huh?" He read the letter, scowled (oh-oh, not a good sign), and flung it down on the desk. He informed me that I couldn't take this job; I needed to go for a Ph.D. This was not what I expected or wanted. I thought about asking if he wanted to tell that to the wife and two kids I had accumulated by this time. I had a rusty old Ford and about 600 bucks to my name, and a job sounded rather attractive.

Chuck asked me, "Who is the best professor in your field?" I said Starker Leopold at Berkeley. "Ok, I'll make you a deal," he said. "You turn down this job offer and I'll personally go to Berkeley and talk Starker into accepting you as a Ph.D. student." Talk about moments in life that are decision points. The gauntlet was thrown down. "Ok", I told him, thinking I had lost my mind—and that my wife was soon to follow. I figured if he was willing to back me like that, I need to believe in myself as much. The rest, as they say, is history. I only learned later that he already had a trip to Berkeley planned to meet with his own Ph.D. advisor Paul Needham. Oh, well.

When I showed up in Berkeley for a Ph.D. my professors were blown away that I—a hayseed from Corn Valley—knew so much more about stats and math than they did. Fortunately, they taught me evolution and animal behavior, a few topics that Chuck Warren didn't expose me to. Chuck's influence set me off on a career dominated by population dynamics and quantitative ecology for the next 20 years. And, he also got me started on nutrition and growth through the work of Fred Fry . When I took my first academic job at University of Michigan, my start-up requests were the biggest calculator made by Monroe and a gas chromatograph.

Years later, when I was returning to Corvallis for another purpose, I called Chuck to set up an appointment. I had not seen him for several decades. When I walked into the room he did a double take, and after fumbling for words, said he had expected the other Dale McCullough. I thought, "Oh come on Chuck, its OK to admit you don't remember me." I always wondered why some quirk of nature had prompted me to call myself Dale R. in print over the years instead of simply Dale McCullough, about as uncommon a name as one can find. Later I discovered the reason. To be able to sort out Google search results into Dale R. (the large mammal guy) and Dale A. (the fish guy)—both of whom passed through the lab of Chuck Warren. That's the scary thing about probabilities. No matter how infinitesimal the likelihood, thing do happen.

We often mark the passing of influential people by erecting monuments and plaques, and going through sacred rituals. Somehow, that all seemed misplaced for Chuck. In sorting through my own thoughts I came to the conclusion that I had already repaid my debts to him by passing it on to my own students. Almost like DNA of the organic world, intellectual roots and lineages can be traced through the products of descent. Chuck's contributions live on in his academic lineage. I think he likes that.

From the Mailbag

Austin Hamer, '42, writes: Thank you, Dan, for the nice note. I'm glad to know that you had such a good turn-out for the 70th Anniversary celebration. It hardly seems possible that I enrolled that long ago. I didn't remember that Andy Landforce was a member of our class, too. I do remember he was student body president one year, but which one I don't remember. He and I worked together on a conservation education project for 4-H kids when he was the Agent in Wallowa County and I was the district biologist stationed at La Grande. He is a fine chap. Sure enjoyed the latest issue of News and Views and all the glowing tributes to Carl and Lenora Bond. They are very fine people and deserve all the praise for their dedication to the Department. Hope they are very happy in their retirement.

Joyce Faler, '83, wrote to Dan: Just wanted to thank you for your work in the continued publication of the Briefs. This was a particularly interesting one—had no idea of the brouhaha going on in the Forestry Dept! Lot of interesting reading. I attended OSU during 1981-83, receiving my B.S. in Fisheries in '83. Dr. Hall was my advisor, Dr. Bond was still teaching ichthyology, and Dr. Coblentz had all his conservation students ready to go out and remove all non-native species ASAP! I've since worked in several fisheries-related jobs for ODFW, USFWS, and now in fish genetics at the University of Idaho, where I received an M.S. in Fisheries in 2002. I'm currently doing microsatellite & microarray genetics work on various fish populations at the UI Hagerman Fish Culture Experiment Station, in Hagerman, Idaho, for Dr. Matt Powell. I had a great learning experience at OSU, and have many fond memories of my

time there. I have a great deal of respect for the Fisheries and other departments on campus, and highly recommend OSU to my nieces and nephews now looking forward to attending college themselves.

Merle Wischnofske, '58, writes from Wenatchee: I enjoyed reading the Summer 2005 edition of News & Views. I was especially interested in the letter from Harold Hansen. Harold and I served in the same military unit at Ft. Lewis in the fall of 1958. Then we were in graduate school together in 1961–62. I helped Harold a few days with his farm pond research project, attended X Corps rifle matches with him at Ft. Lewis, then left for my first job with the U.S. Forest Service at Oakridge, Oregon in April 1962. I took early retirement with the Forest Service in July 1986 at Wenatchee, Washington. I worked summers after that with the Colville Confederated Tribes on the wildlife mitigation project between Chief Joseph and Grand Coulee dams along the Columbia River.

Dick Crone, '65, M.S. '68, writes from Sitka: I've enclosed a contribution to the Carl and Lenora Bond Scholarship Fund. A scholarship certainly seems like an excellent way to honor both Carl and Lenora. I am very grateful for the many things that the Bonds did for me during my student days at Oregon State, and in the years thereafter. Without them I probably would not have been introduced to Southeast Alaska and had a career working with coho while living in such beautiful country. Wish I could have joined all of you in July for the 70th Anniversary celebration of the Department. It would have been great to see you and others I knew during the 1960s in Corvallis.

Chris Nelson, M.S. '55, wrote to send us fisheries types a picture of a "real" big one–a 646-pound catfish from Thailand. Also noted that he recognized himself in the hot pool, but none of the others. Sent a nice fish card in honor of the Bonds. "Although I was in "game", you had to appreciate the Bonds, especially at the "seafood pig-out".

Dale Kruse,'50, sent a copy of an article from the Oregon Journal dated 1954, showing him holding the first northern pike to be found in the Columbia River. He wondered if anyone remembered seeing it.

Charlotte Vickers sent on a couple of letters that she had received:

Sara (Tollefson) King, '87, wrote from Boulder Colorado thanking Charlotte for her help at OSU and sent a picture of her three boys ages 9, 7 and 3. Sara, married to an Urgent Care physician, worked in environmental consulting before starting her family, but now applies her Wildlife Science in teaching her boys about the world around them. She mentioned still hearing from Kelly Goocher in Southern California, but had lost touch with another classmate. [editor's note: I was able to provide that address for her. If others of you would like to get in touch with classmates whose addresses you no longer have, I should be able to help. Send me an email – see page 2]

Yong-Woo Lee, **Ph.D.,'03**, wrote to say how appreciative he was for Charlotte's help in getting him started in the graduate program. He took a 2-year post-doc position at NOAA Fisheries in Seattle and is now an Assistant Professor at the University of Arkansas at Pine Bluff, teaching quantitative fisheries science. He is married and has a 1-year-old daughter.

Jim Hutchison, '56, sent regrets for missing the reunion, which he heard was a "dandy". Also sent his regards to the Bonds.

Jim Kahrs, '51, said "please give my best to Carl and Lenora. They were quite important in my life's direction." Jim also sent along a nice contribution to the Carl and Lenora Bond Scholarship fund, and an article from the Kansas City Star outlining his Osage Catfisheries foray into production of paddlefish caviar. His firm is the only one in the U.S. that is licensed by the USFWS to produce and ship this fish domestically and internationally. A recent decision by the U.S. to ban the import of beluga caviar taken from the Caspian Sea and Black Sea has set Jim up with an opportunity to fill the gap. His company does extensive international business and supplies caviar to some of the finest chefs in the country. Good going, Jim [and I'll bet he is especially pleased, because someone in the Missouri Conservation Department once told him that it wouldn't be possible to raise paddlefish in an enclosed body of water—that was all the challenge he needed]

Credit for the longest distance correspondent, and also the longest out of school goes to **Clara Budlong Hadjimarkos, '39**, who wrote to Dan from France: [ed. note: unfortunately I had to shorten this a bit] In November of this year, 2006, I'll be ninety years old. As a graduate of Fish and Game Management in the class of 1939, I decided it might be a good time to let the school know how my long-ago education affected the ensuing years. At the time of my enrollment in the School of Agriculture in 1937 the

Oregon State College enrollment was a little over 4,000; tuition was $35 a term with an added $150 annual out-of-state fee. I believe there were about 15 girls in the entire School of Agriculture, most being in Horticulture or Bacteriology and two being in Animal Husbandry. I was the only one in the newly created Department of Fish and Game. Mr. Dimick had begun the school two years before my arrival. Some of my classmates were Jay Long, Stanley Jewett, Jr.; Bob Beardsley, Boyd Claggett, Keith Kershaw, Chris Jensen, Len Mathisen, Ivan Donaldson, and Bill Brown. Many of my classmates became responsible for the development of Fish and Wildlife philosophy and policies of the Oregon Game Commission. Mr. Dimick, R.G. Johnson, big game, and Dr. Francis Griffith, the fisheries professor, were the principal instructors. The Department of Fish and Game was housed in the basement of the Home Ec. Building, consisting of Mr. Dimick's office and several classrooms. On my initial meeting with Mr. Dimick, he didn't ask me why I wanted to study Fish and Game; he simply very clearly stated that if I had come to find a husband, I was in the wrong department. In those days that seemed to be the strange glasses through which women were viewed. Corvallis at that time had a population of about 17,000.

A transfer student, I arrived as a junior equipped with a Bausch and Lomb science award from Fullerton District Junior College in Fullerton, California, so I was in pretty good shape for that part of my education but was woefully lacking in the field experience of hunting and fishing, which all of my classmates excelled in. All of that was completely new to me. The main thrust of my classes, as it came through to me, was to grasp the status and importance of big game animals, game birds, and fish for their recreational value in both hunting and fishing and learning to deal with farmers and landowners on whose properties the hunting and fishing took place. There was some field work to learn skills in assessing populations, understanding wildlife food crops, hands-on fur farming, and for the fellows, basic surveying. I was not introduced to that. I also was not invited to join the Fin and Antler Club, in fact did not know it existed for most of my two years. It obviously was not sanctioned for a girl to be included.

Going into the field for almost every 7:00 am class in Wildlife Food Crops with Mr. Hyslop involved all of us jumping into his truck and being driven around identifying and understanding what was available for game, where it grew, the types of soil it grew on, and where it was located. It seemed to me to be a shame that I always had to ride in the cab of the truck. I appreciated getting to listen to Mr. Hyslop explain things as we drove around but thought that all of us in the class should have that opportunity. That would mean I'd take turns riding in the back of the truck just like the fellows. Of course when we stopped everyone piled out of the truck and all were included in Mr. Hyslop's teachings. To correct this, I requested permission from the Dean of Women to wear slacks to this early morning class. Permission was granted with the stipulation that I'd return to my dorm to change into a skirt before attending my eight o'clock class. Wearing slacks, I still rode in the cab of the truck! My dorm was on 9th and Monroe, what now is Varsity House, and my eight o'clock was in the poultry building, which then was the outermost building on campus. There were ten minutes between classes; I became known, I learned later, as "the girl who runs."

Our senior year included the five day spring wildlife field trip to Eastern Oregon to study the break-up of the deer concentrations and the arrival of the bird population at Malheur Bird Refuge. We were a little bit late for the deer and a little bit early for the birds but it was a fabulous trip nevertheless. Again, permission for me to go had to be requested from the Dean of Women. Evidently R.G. Johnson and Mr. Dimick had decided I would be allowed to go on the field trip. We went in several private cars and our first major stop was John Day. After being in the field most of the day, the class was invited to attend a hunter's banquet in the evening. RG told me I was welcome to go but if I did it would create a difficult atmosphere for the men; I opted to sit on a bench outside a store building until it was time to go to my room. After the banquet the fellows spent the night in their sleeping bags in some big building; RG had relinquished his hotel room to me while he stayed with some friends. Some kind soul alerted me the next morning so I didn't get left behind when everyone was ready to roll. Again at the Malheur Bird Refuge, I was housed in a lovely room in the home of Dr. and Mrs. Scharff, while the fellows were off in some big outbuilding. I therefore missed the evening and early morning bird movement and sounds that the fellows were privileged to hear and see. Despite these shortcomings, that field trip was a highlight of my Fish and Game schooling. I truly learned a lot and found out there was a completely different Oregon when one crossed the Cascades and one very much involved with game, fishing, and hunting. Bonneville Dam had not been built so we saw the open Columbia with the Indians fishing from their precarious platforms

built out over the raging waters of The Dalles.

My senior year included two classes that became very important for me: Poultry Anatomy and Diseases. When the last class was over that spring of 1939, Dr. Rosenwald, the teacher, offered me a job in the Poultry Pathology lab. I may well have been the first of our 1939 graduating class to secure employment! and it was right on campus in the familiar Poultry Building. I started working the day after graduation and my job was the result of having taken those two Fish and Game classes. The pay, 35 cents an hour. After two months it jumped up to 50 cents an hour. I was on my way!

After WWII broke out in 1941 and fellows were siphoned off into the military or war jobs, I had the wonderful good fortune to work a number of summers in the U.S. Forest Service, again being the only woman to do so, as guard at the Guard Station at Marion Lake in the Willamette National Forest, later, on a couple of different lookouts. At last I was working outdoors, my goal when I signed up to be a student in Fish and Game! During the school year I worked in Nutrition Research at OSC, took graduate classes and ended up with an M.S. ready to teach Biology in 1950. I ended up teaching physical education at Reed College. How I loved Reed; the school's philosophy of education, my fun job, the students, and the faculty.

After the death of my husband and our daughter's graduation from high school I moved from Portland to a ten acre partially wooded piece of property in the foothills south of Philomath. It was to be my private wildlife preserve and in the twenty some years I lived there I watched the land evolve with the growth of trees and the changes in the creek from beaver activity.

Life in Oregon was a constant treat from the time I arrived as a student until I left a year and a half ago to come to live with my daughter here in Burgundy. France. This part of France is very much like the central part of the Willamette Valley so I feel very much at home. It seems a good time as I approach my 90th birthday to actually sit down and express my thanks to OSU and Oregon for a lifetime of happiness, not wealth; happiness. I do hope there are a few of us early graduates still around and that their memories of our schooling are as rich and as rewarding as mine.

Clara Budlong Hadjimarkos La Bombie 71520 Montagny sur Grosne France qwillow@laposte.net

Hiram and Judy Li Retirement Celebration

Mark your calendars—November 7 and 8. Hiram Li will officially retire this fall and Judy retired in June. We will celebrate their two wonderful careers on November 7 with a dinner and roast and again on November 8 with a special session at LaSells Stewart Center in conjunction with the 4th Annual Symposium on Research Advances in Fisheries, Wildlife, and Ecology sponsored by the department's graduate students. Look for a special mailing next month with more details or contact Jan Cyrus (541-737-1936). Send contributions to a memory book to Jan Cyrus at the department address. In lieu of gifts, Hiram and Judy request that you send donations to the OSU Foundation, either the Coombs-Simpson Scholarship or the Fritzell Diversity Award.

Forestry Flap

Many of you probably read about the big flap in the College of Forestry this past winter occasioned by the attempt of several faculty members to delay publication of an article in the prestigious journal *Science*. The lead author was Dan Donato, a forestry master's student. The article reported on effects of salvage logging on seedling regeneration, stirred up quite a hornet's nest, and got the Dean of Forestry on the hotseat. Less publicized was the fact that two of our faculty and a grad student were co-authors on the article. The Principal Investigator on the original grant that supported Donato's work was Boone Kauffman (who left our department in 2003 to take a position as Director of the Institute for Pacific Islands Forestry in Hawaii [Maybe he saw this coming]). Assuming the position as Principal Investigator was Doug Robinson, who was already on the project and has grad student Joe Fontaine working on this grant. All three were authors on the high-profile article. There was even a congressional hearing. If you missed the brouhaha and want to check it out, try Googling Donato OSU science [28,800 hits at last count]

Survey of Recent Graduates

The OSU Survey Research Center recently conducted a survey of Departmental alumni who graduated from 2003 to 2005. Dan Edge summarized the results of the survey:

Our survey of Fisheries and Wildlife majors from the last 3 graduating classes provides us with valuable information on the success of our academic programs. Based on 114 responses out of 230 questionnaires mailed, graduates from the Department of Fisheries and Wildlife at OSU are generally successful in obtaining jobs. Almost 90% of all graduates were employed within 3 years of graduating from OSU. Success in finding permanent employment and employment in natural resources professions increased with advanced degree levels and with time post graduation. Although most graduates were employed in natural resources professions, students with M.S. or Ph.D. degrees were more successful at finding employment in their chosen professions. Although an M.S. degree has always increased the likelihood of permanent employment in the natural resources professions, data on the last 3 graduating classes suggest that the likelihood of employment for the B.S. graduate increases with time since graduation. Thus, students who persist in searching for jobs and who have a series of temporary jobs are likely to find permanent employment over time. With persistence, more than half may obtain permanent employment while others may need to obtain higher degrees. Developing employment histories in the natural resources field and developing contacts among natural resource professionals will continue to be a very important role of our internship program.

Salary levels of our graduates indicate that employment in fisheries and wildlife or other natural resources fields leads to competitive salaries. . Entry-level salaries for an M.S. degree were $10,000 more than those for B.S. degrees, and graduates with a Ph.D. earned approximately $20,000 more than graduates with an M.S. degree.

Our employment and salary survey represents a snapshot in a dynamic job market. The graduating classes represented by these data were seeking employment during a period of relatively poor economic growth compared to our previous survey. Respondents were more successful at finding employment than we anticipated given the economy.

Our undergraduate degree program appears to be well designed for producing successful graduates. The current degree program has three innovative features: internships, a group problem solving sequence, and a self-designed specialty option. Over 60% of the graduates from this program had somewhat or very positive perceptions regarding the value of each of these curriculum components. Our internship and specialty option components were especially well received. The knowledge, skills, and abilities that students learn while obtaining a degree from our program also appear to be largely on target. A previous survey conducted in 1995 suggested that the department should pay special attention to the communications and human dimensions aspects of our educational program when developing the current curriculum. Responses from this latest survey suggest that our curriculum has been successful in providing our graduates with appropriate knowledge, skills and abilities.

Views from the Past

1970 Oregon Wildlife Federation Meeting
(Andy didn't quite make it in)

Informal faculty meeting, early 1950s
(not great quality in the image, but too good to miss)

Departmental Scholarship Recipients 2005–2006

Undergraduate

Nick Chambers—**Roland E. Dimick** Memorial Scholarship, $2,000; for Sophomores who have been in the Department for at least 3 terms; based on Freshman performance; awarded since 1980.

Adrien Strubb—**Lee Wallace Kuhn** Memorial Scholarship, $500; for Juniors or Seniors emphasizing wildlife; awarded since 2005.

Briana Baker, Nolan Davis, David Hewlett, Jake Tilden-Browning, and Daniel Udell—**Henry Mastin** Memorial Scholarships, $1,200 each; for Freshmen entering the Department; based on scholastic achievement; awarded since 1989.

Donna Fouts and Joshua Gentry—**Bob and Phyllis Mace** Watchable Wildlife Scholarships, $1,500 each; to benefit qualified and needy students working toward an undergraduate degree in the Department; preference to Oregon high school graduates; awarded since 1994.

Sasha Fertig—**Rogue Flyfishers Club** Scholarship, $1,500; for a Junior or Senior majoring in Fishery Science; awarded since 2004.

Matt Morris—**Michael Mapes** Memorial Scholarship, $500; given by the Multnomah Anglers and Hunters Club;for a Junior or Senior with fisheries emphasis; awarded since 2005.

Nick Chambers—**Bill Schaffer** Memorial Scholarship, $800; given by the Multnomah Anglers and Hunters Club for a Sophomore in the Department; based on Freshman performance; awarded since 1942.

Elaina Snyder—**Chan Schenck** Conservation Scholarship, $800; given by the Multnomah Anglers and Hunters Club; for a Junior or Senior in the Department; awarded since 1942.

Emily Hamblen and Noah Strycker—**Vivian Schriver Thompson** Scholarship, $2,500 each; E.R. Jackman Foundation, to benefit needy wildlife students; restricted to Oregon residents; awarded since 1995.

Aaron Chappell and Matt Morris—**Southern Oregon Flyfishers Club** Scholarship, $1,500 each; restricted to Juniors and Seniors in the Department; preference to those with field experience; selection based on scholarship and need; awarded since 1995.

Aaron Chappell and Emily Hamblen—**William Q. Wick** Memorial Scholarship, $1,000 each; to benefit undergraduate students in the Department; preference to Oregon high school graduates; awarded since 1993.

Nick Chambers, Emily Hamblen, and Noah Strycker—**Mike and Kay Brown** Scholarships, $1,000 each; for undergraduate students with a major in the College of Forestry, Department of Fisheries and Wildlife, or in Natural Resources; awarded since 1998.

Noah Stryker—**Cliff & Katie Hamilton** Mentors Scholarship, $1,500; awarded since 1993.

Darek Smith $300, *Brian Sogge* $1,000—Departmental Internship Awards; established from Departmental funds for undergraduates in unfunded or low-funded internships.

Graduate

Karen Fischer—**Coombs-Simpson** Memorial Fellowship, $600; awarded to a female graduate student with personal and professional qualities that exemplify the role-model characteristics of Candia Coombs and Gay Simpson, alumnae of the Department. The recipient is nominated by her peers; awarded since 1995.

Aaron Berger and Seth White—**Oregon Council Federation of Fly Fishers** Scholarship, $1,500 each; to graduate students researching native fishes; awarded since 1992.

Aaron Berger and Michael Heck—**Middle Rogue Steelheaders** Scholarships, $1,000 each; a new award this year.

Joseph Feldhaus—**Hugo Krueger** Graduate Research Award in Fish Physiology, $1,500; awarded since 1986.

Karen Fischer—**Ken Munson** Wildlife Scholarship, $500; awarded since 2005.

Lisa Sheffield—**Thomas G. Scott** Achievement Award, $750; for the Outstanding M.S. student in the Department; awarded since 1993.

Andrea Lueders— **Thomas G. Scott** Achievement Award, $750; for the Outstanding Ph.D. student in the Department; awarded since 1993.

Nichole Sather—**H. Richard Carlson** Scholarship, $1,500; awarded to a graduate student working in the area of marine fisheries; awarded since 2000.

Judith Jobse $600*, David England* $600*, Jennifer Ramsay* $750*, Ephraim Temple* $550—**Henry Mastin** Graduate Fund to assist with expenses for research and travel to professional meetings.

Mike Pope and Andrea Lueders—**Thomas G. Scott** Publication Fund, $500 each.

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