

Collaborative approaches to increase the integration of functional agricultural biodiversity (FAB) in western farming systems.

Ellen SARE PDP Oct 2014

## Major Participant List, Letters of Intent and CV's

### Appendix Two

1. PI: Gwendolyn Ellen, Coordinator of Farmscaping for Beneficials Program, at the Integrated Plant Protection Center, Oregon State University, 2036 Cordley Hall, Corvallis, OR 97333 541-737-6272 [gwendolyn@science.oregonstate.edu](mailto:gwendolyn@science.oregonstate.edu)
2. Consultant for Network Analysis Sub Award: Ken Vance-Borland at the Conservation Planning Institute, 8285 NW Wynoochee Dr., Corvallis, OR 97330 541-231-7949 [kenvb@consplan.net](mailto:kenvb@consplan.net)
4. Core FAB Work Group Member: Rachael Long, Farm Advisor at UCCE, Yolo County, 70 Cottonwood St., Woodland, CA 95695 530-792-7338 [rflong@ucdavis.edu](mailto:rflong@ucdavis.edu)
5. Core FAB Work Group Member: Rex Dufour, Western Region Office Director at NCAT/ATTRA, PO Box 2218, Davis, CA 95617-0363 530-792-7338 [rexd@nact.org](mailto:rexd@nact.org)



Rex Dufour at 2010 Biodiversity Working for Farmers Tour on Lenwood Farms in Connell, WA

*Curriculum vitae*  
**Gwendolyn Ellen**

Integrated Plant Protection Center, 2036 Cordley Hall, Oregon State University, Corvallis, Oregon 97331 541 737-6272  
[gwendolyn@science.oregonstate.edu](mailto:gwendolyn@science.oregonstate.edu)

**Career to date**

Research Associate, Integrated Plant Protection Center, Director of Farmscaping for Beneficials Project, OSU, Corvallis, OR	July, 2003-present
Facilitator Western Conservation Biological Control Work Group, Corvallis, OR	May, 2007- present
Owner/Manager, As the Crow Flies Organics, Crow, OR	Feb, 2000 – Aug 2005
Manager, Jubilee Cooperative Farm Stand, Veneta, OR	Feb, 2000- Dec 2002
Market Director, Lane County Farmers' Market, Eugene, OR	Feb, 1998- Aug, 1999
Agricultural Program Associate, Northwest Coalition for Alternatives to Pesticides, Eugene, OR	May, 1991- May, 1997
Owner/Manager, Ruth and Ruby's Greenhouse, Corvallis, OR	Feb, 1991- Mar, 1992
Research Assistant, Dept of Soils & Dept of Entomology, OSU, Corvallis, OR	May, 1989- May, 1991
Biological Pest Management Consultant, Philomath, OR and Ft. Collins, CO	May, 1988- Oct, 1990
Assistant Greenhouse Manager, Tissue Culture for Crops Project, Botany Dept., CSU	Feb, 1985-April, 1988
Research & Field Technician, Field and Greenhouse Laborer, Plant Pathology Dept., CSU, Ft Collins, CO, Plant Pathology Dept., KSU, Manhattan, KS, San Juan Basin Research Center, OSU, Cortez, CO and Cereprim Farm, Aix-en-Provence, France	April, 1977-Oct, 1985

**Previous appointments**

Facilitator, W Conservation Biological Control Work Group	May 2007-present
President, Corvallis Tilth Chapter, Corvallis, OR	Jan, 1990- Dec 1991
Chair, TilthFest Steering Committee, Corvallis, OR	Jan, 1989-Dec, 1990
Chair, Colorado Agricultural Marketing Coop, Ft. Collins, CO	Jan, 1984-Dec, 1987

**Education**

Farm Business Management, Lane Community College, OR	2002
Small Business Management, Lane Community College	2001
B.S. Plant Pathology, Colorado State University, CO	1980
French Language Diploma, First Level, Universite d'Aix-Marseille, France	1978
General Studies, University of Tennessee, Knoxville, TN	1972-1973

## Research

Intercropping Organic Sweet Corn with Alfalfa, 1981  
Independent Study, CSU

## Awards

2008 The Oldfield/Jackman Team Award College of Ag Sciences Oregon State University

## Grants Awarded

Date	Awarding Body	Topic	Amount
2013	WIPM Center, UC Davis	AG Conservation In ID and WA	\$47,896
2012	WIPM Center, UC Davis	FAB Work Group	\$11,972
2011	USDA, NIFA, OREI	FAB Planning Grant	\$46,580
2010	WIPM Center, UC Davis	FAB Work Group	\$10,000
2010	Blueberry Commission	Habitat & Bene's	\$6000
2010/11	WSARE R&E	Habitat & Beetles	\$206,000
2009	WSARE	Field Classes	\$1779
2007	WIPM Center, UC Davis	CBC Work Group	\$18,758
2006	USDA, SARE Professional Farmer Grant	Beetle Banks in OR	\$19,068
2000	USDA, SARE Producers- Marketing Grant-Jubilee Farm Stand	Cooperative Farm Stand	\$5,000
1996	Organic Farming Res Foundation model for certified OG growers in OR quarantine districts	Develop organic pest	\$5,000
1994-6	Wallace Genetic Foundation NCAP	Reducing Pesticides in Red Raspberry Production-Farm Clubs	\$30,000
1990	Sustainable Ag Research and Education Program, UC Davis	Farmer to Farmer Program-TilthFest	\$1500

## Publications

### Book contributions

**Bane, G., Dick, R., and Murray, H.** *A Sustainable Agriculture Resource Guide for Oregon and Washington.* OSU Extension Publication 8531, 1992.



**The Conservation Planning Institute**

8285 NW Wynoochee Dr., Corvallis OR 97330

<http://www.conservationplanninginstitute.org/>

(541)231-7949; [kenvb@consplan.net](mailto:kenvb@consplan.net)

**Ken Vance-Borland**

*Executive Director*

October 20, 2014

Gwendolyn Ellen  
Farmscaping for Beneficials Project  
IPPC/OSU  
2036 Cordley Hall  
Corvallis, OR 97331

Dear Gwendolyn,

The Conservation Planning Institute is pleased to have the opportunity be a major participant on the WDARE PDP grant proposal “Collaborative approaches to increase the integration of functional agricultural biodiversity (FAB) in western farming systems.” If the proposal is successful, we would act as a consultant to do network surveying, mapping, analysis, and training, and participate in report writing. Please see below for our budget and budget narrative. Thanks again for inviting CPI to participate in this worthwhile project.

With best regards,

Ken Vance-Borland

	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>Total</b>
<b>Labor</b>	\$1,032	\$5,223	\$4,160	\$10,415
<b>Fringe</b>	\$133	\$672	\$535	\$1,340
<b>Other Direct Costs</b>	\$35	\$105	\$105	\$245
<b>Total Cost</b>	\$1,200	\$6,000	\$4,800	\$12,000

**Budget Narrative**

**Labor:** This includes the cost of Ken Vance-Borland working on questionnaire development, online survey setup and management, network data mapping and analysis, meeting participation, training, and report writing. Ken’s hourly rate is \$86.79 and he will be spending 120 hours on this project.

**Fringe:** This includes employer contributions to Medicare, Social Security, unemployment, and workers’ compensation.

**Other Direct Costs:** This includes \$35 per month for an online social network survey platform during the two data collection periods: December 2015-February 2016 and December 2016-March 2017.

## **Kenneth W. Vance-Borland**

The Conservation Planning Institute  
8285 NW Wynoochee Drive, Corvallis OR 97330 USA  
(541)231-7949; kenvb@consplan.net  
<http://www.conservationplanninginstitute.org/>

### **A. Education**

1999. M.S. Wildlife Science, Forest Science minor, Oregon State University. Thesis title: Physical Habitat Classification for Conservation Planning in the Klamath Mountains Region.  
1993. B.S. Zoology, Magna Cum Laude, Oregon State University.

### **B. Professional Experience** (abbreviated)

2003-Present: Executive Director, The Conservation Planning Institute, Corvallis, Oregon.  
1996-2014. Spatial Analyst and (from 2010) Social Network Analyst/Senior Faculty Research Assistant, Department of Forest Ecosystems and Society, Oregon State University and U.S. Forest Service Aquatic Ecology and Management Program, Corvallis, Oregon.  
2000. Adjunct Faculty, Department of Biology, University of Milan, Milan, Italy.  
1999-2003. GIS Director, Conservation Science, Inc., Corvallis, Oregon.

### **C. Publications** (abbreviated)

Fischer, A.P., K. Vance-Borland, K.M. Burnett, S. Hummel, J.H. Creighton, S.L. Johnson and L. Jasny. 2014. Does the Social Capital in Networks of “Fish and Fire” Scientists and Managers Suggest Learning? *Society & Natural Resources* 27 (7): 671-688.

Morena Mills, Jorge G. Álvarez-Romero, Ken Vance-Borland, Philippa Cohen, Robert L. Pressey, Angela M. Guerrero, and Henrik Ernstson. 2013. Linking regional planning and local action: Towards using social network analysis in systematic conservation planning. In press *Biol. Conserv.*, <http://dx.doi.org/10.1016/j.biocon.2013.10.015>

Álvarez-Romero, J.G., R.L. Pressey, N.C. Ban, K. Vance-Borland, C. Willer, C.J. Klein, and S.D. Gaines. 2011. Integrated land-sea conservation planning: The missing links. *Annual Review of Ecology, Evolution, and Systematics* 42:381-409.

Vance-Borland, K., and J. Holley. 2011. Conservation stakeholder network mapping, analysis, and weaving. Invited submission to *Conservation Letters* 4:278-288.

Sutherland, W.J., and 43 others including Vance-Borland, K. 2009. One hundred questions of importance to the conservation of global biological diversity. *Conservation Biology* 23(3):557-567. DOI: 10.1111/j.1523-1739.2009.01212.x

Vance-Borland, K., D. Roux, J. Nel, and B. Pressey. 2008. From the mountains to the sea: where is freshwater conservation in the SCB agenda? Editorial. *Conservation Biology* 22(3):505-507.

Vance-Borland, K., K. Burnett, and S. Clarke. 2008. Influence of mapping resolution on assessments of stream and streamside conditions: lessons from coastal Oregon, USA. *Aquatic Conservation: Marine and Freshwater Ecosystems* DOI: 10.1002/aqc.967

Burnett, K.M., G.H. Reeves, D. Miller, S. Clarke, K. Vance-Borland, and K. Christiansen. 2007. Distribution of salmon-habitat potential relative to landscape characteristics and implications for conservation. *Ecological Applications* 17(1):66-80.

Mannetti, L.M., K. Vance-Borland, K.J. Esler, and A.T. Knight. In Preparation. Understanding social networks to improve adaptive co-governance with the Khomani Bushmen of the Kalahari, South Africa.

Örjan Bodin, Jonathan Rhodes, Ken Vance-Borland, Shaun Coutts, Angela Guerrero, Annica Sandström, Iadine Chadès. In preparation. Towards Efficient, Legitimate and Inclusive Conservation Planning using Social Networks Analysis. Target journal: Conservation Letters.

#### **D. Presentations** (abbreviated)

- Vance-Borland, K. 2014. Applied social network analysis: Tools for visualizing and processes for bridging social divides in conservation projects. University of Adelaide, Australia, June 26.
- K. Vance-Borland, M. Mills, J.G. Alvarez-Romero, P. Cohen, R.L. Pressey, A.M. Guerrero, and H. Ernstson. 2013. How might insights gained from stakeholder network analysis be integrated into conservation decision-support tools? Society for Conservation Biology International Congress of Conservation Biology, Baltimore, MD.
- K. Vance-Borland, J. Soule, and D. Gowensmith. 2013. The environmental evaluators Pacific Forum network. Environmental Evaluators Network Pacific Forum, Corbett, Oregon.
- Ken Vance-Borland and Debra Whitall. 2012. Social networks and network analysis: A partnership network peer-learning session. A webinar hosted by the National Forest Foundation.
- Ken Vance-Borland, Paige Fischer, Kelly Burnett, Janean Creighton, Susan Hummel, and Sherri Johnson. 2012. Researcher and manager collaboration and communication networks: The case of fish and fire. Society for Conservation Biology North America Congress of Conservation Biology, Oakland, CA.
- Vance-Borland, K. 2011. Social networks for natural resources conservation. Second International Marine Conservation Congress, Victoria, British Columbia, May 17.
- Vance-Borland, K. 2010. Regional conservation social networks: mapping, analysis, and weaving. Society for Conservation Biology Annual Meeting, Edmonton, Alberta, July 2.
- Vance-Borland, K., J. Holley, and J.G. Alvarez-Romero. 2009. Social networks for freshwater conservation. American Fisheries Society Annual Meeting, Nashville, Tennessee, Sept. 3.
- Vance-Borland, K. 2009. Social network analysis of sustainable natural resource practitioners in coastal areas. International Marine Conservation Congress, Washington, D.C. May 21.
- Vance-Borland, K., and J. Holley. 2009. Social networks for coastal conservation. Webinar presentation and software demonstration. Ecosystem-Based Management Tools Network. January 29.
- Vance-Borland, K. 2008. Social network analysis. Workshop: Coastal-marine ecosystem-based management tools training for South Pacific practitioners. Magnetic Island, Queensland, Australia, August 27-29.
- Vance-Borland, K. 2008. Social networks for coastal conservation. Seminar, University of Adelaide and Commonwealth Scientific and Industrial Research Organization, Adelaide, Australia. August 22.

#### **E. Research and Scholarly Work** (abbreviated)

An evidence-oriented framework for applied conservation network projects.

Using social network software to analyze the transmission of wildfire risk in landscapes in the western U.S.

Coupled natural and human systems: the forest-people-fire social network of central Oregon.

Federal land-management agency science communication networks: the case of fish and fire in the Pacific Northwest, USA.

Lincoln County, Oregon, terrestrial, freshwater, estuarine, and marine conservation stakeholder

networks.

#### **F. Trainings** (abbreviated)

Social network mapping and network weaving coaching for the Minnesota Native American leadership network. September 2014-Present. For the Tiwahe Foundation.

Applied social network analysis: Tools for visualizing and processes for bridging social divides in conservation projects. Society for Conservation Biology North America Section meeting, Missoula, Montana, July 13.

A hands-on introduction to applied conservation social network analysis for community-based conservation. 2014. Society for Conservation Biology Oceania Section meeting, Suva, Fiji, July 7.

Social network mapping and network weaving coaching for the Alberta environmental NGO network mapping project. April 2014-Present. For Alberta Ecotrust.

Provide expert advice in data collection design and analysis of information flow networks for natural resource management in Bua Province, Fiji. March 2014-Present. For the Wildlife Conservation Society.

Social network survey and mapping for the “Minnesota agbiosciences economic development cluster” project. 2013. For Minnesota Rural Partners.

Social network analysis for the Verde Passage, Philippines, marine biodiversity conservation corridor. 2011-2013. Memorial University of Newfoundland. Training an MS student in social network analysis methods, as a member of her committee.

Social network analysis and weaving for the Networks for Business Innovation. 2012. Grenfell campus of Memorial University of Newfoundland, Corner Brook, Newfoundland. Training researchers, students, Rural Secretariat staff, and Corner Brook Board of Trade members in network analysis (with UCINET) and weaving methods for their economic development project.

Mapping the exchange of information and knowledge of plant resources among Khomani Bushmen of the Kalahari Transboundary National Park, South Africa and Botswana. 2010-2011. University of Stellenbosch, South Africa. Training an MS student and her faculty advisers in social network analysis methods.

Network weaving for regional development on the Great Northern Peninsula. 2010. Memorial University, St. Johns, Newfoundland. Training researchers, students, and community members in social network analysis methods.

Social network analysis and evaluation. 2010. Environmental Evaluators Network Forum, George Washington U., Washington D.C. June 7. Co-trainer.

Development of an outcomes-based evaluation framework for assessing the effectiveness of watershed group activities in the Hudson Valley. 2009-2010. Cornell University, Ithica, NY. Training researchers in social network analysis methods.

#### **G. Awards and Service** (abbreviated)

Member, World Commission on Protected Areas Freshwater Task Force, February 2008-present. Oregon State University College of Forestry Dean’s Award for Outstanding Achievement by a Faculty Research Assistant. 2008.

President, Society for Conservation Biology Freshwater Working Group (FWWG), June 2006-December 2008.



**University of California**  
Agriculture and Natural Resources

Cooperative Extension, Yolo County

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Woodland, CA 95695  
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<http://ceyolo.ucdavis.edu>



Western SARE Administrative Council  
Western SARE  
2753 State Highway 157  
Lingle, WY 82223

October 17, 2014

Dear Western SARE Administrative Council,

As an active Western Region Functional Agricultural Biodiversity (FAB) Work Group member and a UC Cooperative Extension Farm Advisor for Yolo County I would like to express my intent to be a major participant in the 2014 WSARE Professional Development Program proposal entitled *Collaborative approaches to increase the integration of Functional Agricultural Biodiversity (FAB) in western farming systems*, submitted by G. Ellen of Oregon State University's Integrated Plant Protection Center. I will participate in the planning, development and recruitment of participants in the project's activities which includes an annual meeting, a field course on habitat establishment in a chosen pilot state, a FAB Summit in Portland, Oregon and a network analysis of the FAB Work Group and its associated projects.

I have participated for 8 years in the FAB Work Group and have found this to be an incredible opportunity to share information with other researchers and farmers in other states to learn what work is being done that would be of benefit to enhancing ecosystem services in agriculture. Through our meetings we developed projects and grant proposals and this collaboration provided ideas for two research proposals, which were funded through my program for over \$200,000 (one on bird use of hedgerows and a second on hedgerow outreach).

This is a very important proposal that will increase learning about functional agricultural biodiversity and the ecosystems services it can provide to farmers, conservationists and researchers in California, Idaho, Washington and Oregon. At the same time the proposed activities would help expand an established regional structure under which networking of resources, technical and scientifically-based information, and farmer adoption of practices that can be readily exchanged.

I have been working on biodiversity of farming systems for over 20 years and value the opportunity to share my work experience with others. The FAB Work Group provides a strong foundation for this sharing of information.

Sincerely,

Rachael Long, Farm Advisor  
UCCE Yolo County  
[rflong@ucdavis.edu](mailto:rflong@ucdavis.edu), 530-681-7661



## Curriculum Vitae

### Rachael Freeman Long

Ph: (530) 666-8734  
rflong@ucdavis.edu

UC Cooperative Extension  
70 Cottonwood St.  
Woodland, CA 95695

### Education

B. S. University of California, Berkeley (Entomology) 1983

M. S. University of California, Davis (Entomology) 1987

### Employment

2004-present Full Title Farm Advisor, UC Cooperative Extension, Yolo Co.

2000-01 Acting County Director, UC Cooperative Extension, Yolo Co.

1995-2004 Associate Farm Advisor UC Cooperative Extension, Yolo Co.

1992-95 Assistant Farm Advisor UC Cooperative Extension, Yolo Co.

1986-92 Staff Research Associate Dept. of Entomology, UC Berkeley.

### Awards

Miller Plant Science Award 2003, 2006, 2007; Excellence in Crop Production Award 2004 (Calif. Assoc. Farm Advisors & Specialists); Nat. Assoc. of Farm Advisors & Specialists Achievement Award 1996; Special Achievement Award 1991; UC Berkeley Employee Professional Development Award 1989, 1990, 1991; Jastro-Shields Research Award 1985; Armstrong Fellowship 1980; Cabrillo Jr. College Award 1979.

### Professional Societies

Entomological Society of America; American Society of Agronomy, National Assoc. of County Agricultural Agents; California Assoc. Farm Advisors/Specialists; California Native Grass Assoc.

### Languages Spanish

### Peer-Reviewed Publications

Long RF, SR Temple, JL Schmierer, WM Canevari, and R Meyer. 2010. Common dry bean production in California, second edition. UC ANR publication number 8402.

Long RF, B Hanson, AE Fulton, D Weston. 2010. Mitigation techniques reduce sediment in runoff from furrow-irrigated cropland. *Journal of California Agriculture*, 64(3):135-40.

Long RF, A Fulton, B Hanson. 2010. Protecting surface water from sediment-associated pesticides in furrow-irrigated fields. UC ANR publication number 8403.

Morandin L, RF Long, CG Pease, and C. Kremen. 2011. Hedgerows enhance beneficial insects on farms in California's Central Valley. *J. California Agriculture*. Vol. 65(4):197-201.

Long RF and L Morandin. 2011. Low hybrid onion seed yields relate to honey bee visits and insecticide applications. *Journal of California Agriculture* 65(3):155-58.

Gillespie S, RF Long, N Seitz, and NM Williams. 2013. Insecticide use in hybrid onion seed production effects pre and post-pollination processes. *J. of Economic Entomol.*, 177(1): 29-37.

Long RF, S. Temple, R Meyer, LD Godfrey, L Schwankl, WM Canevari, P Roberts, and P Gepts. 2013. Lima bean production in California. UC ANR publication number 8505.

Morandin LA, RF Long, C Kremen. 2014. Hedgerows enhance beneficial insects on adjacent tomato fields in an intensive agricultural landscape. *J. Ag, Ecosystems, & Environ.* Vol. 189:164-170.



Western SARE Administrative Council  
Western SARE  
2753 State Highway 157  
Lingle, WY 82223

October 22, 2014

Dear Western SARE Administrative Council,

I am an active member of the Western Region Functional Agricultural Biodiversity (FAB) Work Group, as well as Western Region Field Office Director for the National Center of Appropriate Technology (NCAT) office in Davis, CA. I would like to express my intent to be a major participant in the 2014 WSARE Professional Development Program proposal entitled *Collaborative approaches to increase the integration of Functional Agricultural Biodiversity (FAB) in western farming systems*, submitted by G. Ellen of Oregon State University's Integrated Plant Protection Center. I will participate in the planning, development and recruitment of participants in the project's activities which include an annual meeting, a field course on habitat establishment in a chosen pilot state, a FAB Summit in Portland, Oregon and a network analysis of the FAB Work Group and its associated projects. We would also be able, under NCAT's ATTRA project, to develop informational pieces for the FAB summit on best practices for habitat establishment, which could be an outline for developing a field course on this topic.

I have participated for 6 years with the FAB group, attending and presenting at FAB workshops in Oregon, Washington and Idaho, as well as attending and participating at 4 FAB planning meetings in Corvallis and Portland. The FAB workshops (and planning meetings) are useful venues for professionals with interest in FAB to meet, exchange ideas, and collaborate on projects, as well as observe how farms in different ecological settings support beneficial habitat.

I'm enthusiastic in my support of the work and the collaborations proposed in this project. It represents an opportunity to create tools which will increase the opportunity for farmers, professionals, and policy-makers to learn about functional agricultural biodiversity and the ecosystems services it can provide to farmers, and the broader public, in California, Idaho, Washington and Oregon. At the same time the proposed activities would help expand an established regional structure under which networking, sharing of resources and technical information, as well as sharing of knowledge about the specifics of farmer adoption of these conservation practices can be readily exchanged. I look forward the opportunity to work and participate in this project.

Sincerely,

Rex Dufour  
Western Regional Office Director  
NCAT/ATTRA

*ATTRA is an NCAT project and is funded by the USDA Rural Business - Cooperative Service.*



# **Rex Dufour**

Manager, NCAT/California Office

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## **SPECIAL QUALIFICATIONS**

Dufour has over 30 years experience working in sustainable development and sustainable agriculture as well as 20 years management experience, both domestically and internationally. Management experience includes project design and monitoring, training staff, all aspects of budgeting, supervision, procurement, evaluation as well as negotiation with foreign governments. Dufour worked four years as Associate Project Manager for the ATTRA project, which is a national sustainable agriculture information service, and ten years managing NCAT's California office. He spent 6 years managing integrated rural development projects in Thailand and Laos, working with rural poor as well as host country officials. Dufour has worked in Integrated Pest Management (IPM) both domestically and overseas as a Peace Corps Volunteer. He has worked closely with USDA/NRCS for over a decade, helping train west coast NRCS staff about organic certification, organic production practices, soil health, and their intersection with NRCS conservation goals, as well as develop trainings for organic technical service providers for NRCS. He has researched and advised farmers how to develop habitat for beneficial organisms on their farm.

## **EDUCATION**

The Colorado College, Colorado Springs, Colorado. B.A. in Biology (1976)

M.Sc. in Integrated Pest Management, University of California, Riverside, CA (1982)

## **EXPERIENCE**

### **Regional Office Director, California Office, 2001 - Present**

#### **National Center for Appropriate Technology**

Open and manage new office for NCAT in California, develop formal and informal partnerships, write proposals and develop projects (received funding for over 14 projects totaling over 1.6 million dollars in 13 years), and look for funding opportunities for 2 NCAT program areas with focus on helping underserved farmers. Strategic planning for CA office-based activities and technical writing of sustainable agriculture publications in support of the ATTRA project. Supervise four staff. Manage 3-4 ongoing USDA-funded projects.

### **Associate Project Manager, Appropriate Technology Transfer for Rural Area, 1996-2000**

#### **National Center for Appropriate Technology**

Assist managing Appropriate Technology Transfer for Rural Area (ATTRA), the national sustainable agriculture information clearinghouse. The ATTRA project (at that time) had a \$1.3 million annual budget and 25 staff. Share responsibilities with the Project Manager for hiring, budgeting, supervision and strategic planning.

### **IPM Technical Specialist, ATTRA 1994-1996**

#### **National Center for Appropriate Technology**

Perform literature research and integrate personal field experience to synthesize written biointensive IPM strategies for a wide range of pests in response to questions from growers from around the U.S. Under contract with U.S. Fish and Wildlife Service, developed written IPM plans for several thousand acres of potatoes and small grains grown on two U.S. Fish and Wildlife Refuges in California and Oregon. Outlined information gaps and suggested areas of research in support of IPM implementation in Klamath Basin.

**Project Manager, 1990-1993****Lao-American Integrated Rural Development, Vientiane, Laos**

Managed first bilateral USG-sponsored rural development project in Laos since 1975. The project included 2 districts in Northeastern Laos, a \$1.5 million annual budget and a target population of over 35,000. Created strategic development plan with Lao counterparts and villagers for rural agriculture, health, credit and infrastructure initially targeting 30 villages and 9,000 villagers. Coordinated these efforts with international non-governmental organizations (NGO's) and other bi- and multilateral donors working in the same areas to avoid duplication of effort. Negotiated annual project agreements with the Lao Government obligating a total of \$4.5 million. Developed community development extension team where none previously existed. Monitored and reported on all activities to the Embassy and Congress. Familiar with USAID financial regulations and contracting procedures, which were used by the Embassy for this project.

**Affected Thai Villager (ATV) Program Officer, 1987-1990****United Nations Border Relief Operation (UNBRO) Aranyaprathet, Thailand**

Managed, monitored, reported on and developed budget for the multi-sectoral ATV rural development program which included 7 Thai border provinces, \$5 million annual budget and a target population of over 100,000. Worked with Thai military and civilian officials in developing and implementing sustainable rural development projects, including school lunch programs, child day-care centers, irrigation projects, water storage projects, village water systems, and cow and rice banks.

**Agricultural Trainer/Technical Coordinator, 6/1987-11/1987****U.S. Peace Corps Training Program, Thailand**

Trained 30 new volunteers about tropical agriculture and agroforestry in a Thai social context, developed training materials, helped coordinate and plan training sessions at several locations in Thailand.

**Plant Protection Specialist, 1985 – 1987****Royal Thai Government, Department of Agricultural Extension, Plant Protection Unit 1, Korat (Nakorn Ratchasima).**

Developed IPM training pamphlets and pesticide use and safety skits for 95 Peace Corp volunteers and over 300 Thai villagers and procured funding for-, organized and researched neem seed extracts, comparing the efficacy of this botanical to chemical pesticides and *Bacillus thuringiensis* on kale in Thailand.

**LANGUAGE**

**Thai:** good speaking ability, fair reading, poor writing

**Lao:** good speaking ability, fair reading, poor writing