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SUMMARY OF EXPERIENCE

Mr. Clarke is an international consultant who provides expertise in the design, implementation, evaluation, and management of complex development projects. His experience includes managing programs and projects in the food, agricultural, and natural resource sectors that require delivery of technical services and training. Trained as an agronomist, he has special technical expertise in grain storage, certified seed production, quality standards, and crop variety evaluation within both temperate and tropical agro-ecosystems. Over the past eight years through projects in Morocco and Senegal, he has also acquired practical expertise in horticultural production, marketing, and trade with the U.S. Mr. Clarke has extensive experience in:

- Organizing and leading international, inter-disciplinary, multi-skilled teams to advise, implement and evaluate complex agricultural, rural, and community development projects that seek to be participatory, environmentally sound, and sustainable
- Coordinating the preparation and writing of grant proposals for projects related to participatory rural and agricultural development and natural resource management
- Designing, arranging, and facilitating customized technical training programs and study tours on the U.S. food, agricultural, and rural sectors (both private and public, and from field production through processing and marketing) for professionals from around the world.

PROFESSIONAL EXPERIENCE

President & CEO, Cedarcliff International, St. Paul, Minnesota (June 2003 to present)

Mr. Clarke created a private consulting business to provide technical and management services for international development following the termination of his University of Minnesota position resulting from major cuts in the University's budget. Selected consulting contracts include:

- Assisted University of Minnesota and NGO team in development of a flood management proposal with the Mekong River Commission that links organizations in the Mississippi and Mekong River Basins (March-May 2005)
- Conducted training needs assessment for the Ministry of Agriculture in Madagascar (World Bank funding) to help develop a training plan for its new Master Plan for Rural Development and to support implementation of its Compact with the US under the Millennium Challenge Account (February 2005)
- Served as Team Leader for Vermont-based Associates in Rural Development (ARD) in conducting an evaluation of four cereal-based agricultural research networks (millet, sorghum, maize and rice) in West Africa commissioned by USAID that included field visits to 8 countries (June-October 2004)
- Designed, arranged and facilitated a 2-week series of visits and meetings in the U.S. East and West Coasts aimed at introducing a Tanzanian processor-exporter to the U.S. cashew market and sponsored by the Cochran Program of USDA/FAS (July 2004)
- Assisted the International Development Division of Land O'Lakes, a large Minnesota-based agricultural cooperative, in preparing an invited proposal to Madagascar's Ministry of Agriculture, Livestock and Fisheries for a 5-year, \$18 million services contract that would provide technical and training assistance to support the Ministry's implementation of its 5-year Master Plan for Rural Development; assisted Land O'Lakes in presenting and promoting proposal in Madagascar to the Ministry, Prime Minister, and President; selected as long-term part-time U.S. based Special Advisor for project (April-May 2004)

- Assisted colleague in designing, arranging and facilitating a 10-day visit in the U.S. under the USDA Cochran Program for two oilseed buyer-importers from Uzbekistan who were exploring options for procurement and export of U.S. soybeans to their country for oil and feed extraction (February 2004)
- Served as Team Leader for the International Development Division of Land O'Lakes on a 4-week field assessment of Madagascar's agricultural sector and preparation of a 5-year strongly market-oriented Master Plan for Rural Development commissioned by the Ministry of Agriculture, Livestock and Fisheries with World Bank funding (January-February 2004)
- Served as Co-Chair of the Task Force on Program Delivery for Compatible Technology International (CTI), a volunteer-based NGO headquartered in Minnesota begun 20 years ago by retired food and agricultural engineers committed to developing and disseminating appropriate, affordable village-level post-harvest and food processing technologies for the world's poor (December 2003–June 2004)
- Assisted Cooperative Resources International (CRI), a Wisconsin-based agricultural cooperative specializing in livestock genetics, to conceptualize and write a dairy development proposal focused on Madagascar's Central Highlands and submitted for funding to USAID's Dairy Enterprise Initiative (September-November 2003)
- Served as part-time project manager for the Council of State Government grant received by the University of Minnesota's Water Resources Center (WRC) and the Mississippi River Basin Alliance; responsible for guiding project implementation on the U.S. side, coordinating communications with the Mekong River Commission (MRC), and preparing monthly reports to donor; helped design and organize 2-week study tour and decision-maker meetings (October 2003) for 12 MRC officials (Cambodia, Laos, Thailand, and Vietnam) to learn about environmental impacts of river development, inter-governmental planning, conflict resolution, balancing competing interests, and participatory stakeholder approaches; helped organize and participated, as part of 6-person WRC & MRBA team, in 2-week observation tour and decision-maker meetings (March 2004) in the Mekong River Basin; helped draft Memorandum of Understanding among the three partners for long-term collaboration (July 2003 to present)
- Co-authored 1-year seed grant proposal submitted by the University of Minnesota's Water Resources Center together with the Mississippi River Basin Alliance (Minnesota-based NGO) to the U.S. Council of State Government's Asia Environmental Initiative titled "Mekong-Mississippi Partnership: Improving Policy Decision-Making Processes," and helped negotiate final terms of grant following award (May-June 2004)

Senior Projects Manager, Office of International Agricultural Programs, College of Agricultural, Food and Environmental Sciences, University of Minnesota, St. Paul, Minnesota (1998-2003)

- Co-authored winning grant proposal and then managed implementation starting in early 2002 of the project titled "Building Senegal's Trade in Horticultural Commodities with the U.S." funded by USAID through the African Trade and Investment Policy (ATRIP) program. Primary goal is to increase exports (currently zero) of fresh fruits and vegetables from Senegal into U.S. markets, taking advantage of tariffs and other barriers eliminated by the African Growth and Opportunity Act (AGOA). Initial activities included preparation of pest risk assessments required by USDA-APHIS, mastery of logistics tied to maintaining the cold chain, trial shipments of fresh green beans for test marketing in the U.S., and establishment of user-friendly, exporter-oriented market information systems.
- During 2002-03, co-designed, organized, and facilitated a 2-month intensive training program at UM in Soil & Water Resource Management sponsored by UNDP for eight professionals from China's Ningxia Province (upper reaches of the heavily polluted Yellow River in Northwest China), and with UM's China Center hosted several groups of Chinese agricultural officials in fields such as precision agriculture, ag biotechnology, and seed certification.

- Designed, arranged, and facilitated a 2-week U.S. study tour sponsored by USDA/Cochran for a senior agricultural economist from Namibia focused on organic crop and livestock production, certification, and marketing.
- Designed and conducted a hands-on training program in Senegal in early 2003 for a small group of U.S. Peace Corps Volunteers and staff as well as several village counterparts on the use of the hand-operated village-level Omega V grinder for peanuts, millet and sorghum developed by Compatible Technologies International (CTI), as well as on use of a low-cost, family-sized solar oven recently developed and built by the Solar Oven Society in Minnesota.
- Planned and participated in a proposal preparation visit to Madagascar in 2002 in conjunction with a private livestock services company (Wisconsin-based Cooperative Resources International), for an innovative dairy development project in the central Malagasy highlands.
- Co-designed and co-taught as well as coordinated logistics for a 2-week, 3-credit course in Morocco for UM undergrads on Morocco's Agro-ecosystems in conjunction with faculty at the Ecole Nationale d'Agriculture in Meknes. Co-hosted with IAV the first meeting and *mechoui* reception of Morocco's chapter of the UM Alumni Society held in Rabat with funding from Cargill.
- Advised OIAP's Director on program strategies and development and led numerous grant writing efforts. Served as Acting Director for 18 months in 1998-99 during international search process.

Project Coordinator, Office of International Agricultural Programs, University of Minnesota, St. Paul, Minnesota (1987-1998)

Provided overall management and coordination of UM's long-term (25 years), institution-building project funded by USAID in support of the Institut Agronomique et Veterinaire Hassan II (IAV) in Morocco. Major program components included Doctoral training of Moroccan faculty (coursework in U.S., research in Morocco), short-term technical training in the U.S., short-term technical assistance to Morocco from more than 25 U.S. institutions (primarily land-grants) in a broad array of scientific fields, and procurement of research equipment and library materials. Visited Morocco 2-4 times annually to assess project progress first-hand, plan project activities and budgets with in-country partners, and confer with donor. Moroccanized project management several years before end of project. Brought project to successful conclusion in 1993, following negotiation of 3-year extension of original 10-year, \$28 million project. Project resulted in the training of 130 Moroccans to the Doctoral level and 240 students and faculty to the Masters, and is widely considered one of the most successful institutional development projects internationally both for UM and for USAID.

During the mid-1990s, managed the USAID-funded Program of Support to Agribusiness (PSA) in Morocco and UM's subcontract to Development Alternatives, Inc. (DAI), within the Morocco Agribusiness Promotion Project. The PSA led to creation of grower-oriented, fee-paying pest diagnostic clinic and soil-water testing lab, applied IPM research and outreach program, Morocco's first pilot food processing plant, and a Masters in Ag Business. Also managed UM's subcontract with ConAgra for the Potato Industry Restructuring Project in Russia's Kuban Region (Krasnodar) funded by USAID through the Citizens Network for Foreign Affairs. Responsible for developing and managing UM's follow-on faculty exchange program in Morocco with IAV and sister institutions. Coordinated the IAV-UM partnership sustainability effort, including workshops held in both Rabat and St. Paul. Also served as coordinator of the UM's post-contract linkage grant for post-harvest technology development in Rwanda.

Chief of Party, University of Minnesota, Crop Storage and Marketing Research Project, Kigali, Rwanda (1984-1987)

Established and directed field operations in Rwanda for the UM research and outreach project funded by USAID and designed to address the problems of post-harvest food losses, particularly in

dry beans and sorghum. Coordinated and advised 5 junior U.S. scientists as well as local staff. Arranged and facilitated some 20 short-term technical advisory visits to Rwanda by senior university faculty. Helped provide practical, on-the-job training to young Rwandan scientists and technicians. Personally conducted research on the development of grain quality standards for Rwanda, and helped establish first national grain quality lab. Prepared annual work plans and budgets, drafted quarterly progress reports, and co-authored final technical document.

Assistant Executive Vice President, Foundation Seedstocks, Minnesota Crop Improvement Association, St. Paul, Minnesota (1978-1984)

Managed the production, sales, and distribution of Foundation seedstocks of publicly-developed varieties including corn, soybeans, small grains, and various forage and specialty crops. Negotiated contracts and supervised production of nearly 2000 acres of seed grown under contract with 35 producers throughout the state as well as breeder seed increases and purification plots at university experiment stations. Helped develop computerized record-keeping system of seed inventory and sales. Annual sales rose significantly to \$3/4 million. Served on UofM's Crop Variety Review Committee which determined varietal recommendations and releases for the State of Minnesota, and actively participated in the Association of Official Seed Certifying Agencies (AOSCA).

Country Program Director and Research Agronomist, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Bamako, Mali (1976-1978)

As first ICRISAT Representative in Mali and liaison to the national research system, established applied agricultural research program whose objective was the development of improved varieties of the country's two principal dryland food crops (sorghum and pearl millet) together with appropriate cropping systems. Organized and managed multi-location testing program to identify varieties with high and stable yield potential, durable disease and insect resistance, desirable agronomic characters, and grain quality acceptable to local consumers. Placed major emphasis on training of young Malian scientists in order to develop national capabilities for conducting future farmer-oriented agricultural research. Hired, trained, and supervised some 30 administrative, research and field staff. Obtained and administered project funding provided by the Ford Foundation and USAID.

Assistant Agronomist, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India and Senegal (1975-1976)

Studied and evaluated challenges faced by traditional farming systems and research programs at ICRISAT in India and later at the Centre National de Recherche Agronomique (CNRA) in Senegal in terms of relevance to future assignment in Mali (see position described above). For several months, assumed interim responsibility for the International Development Research Centre (IDRC) sorghum improvement program at Bambey (central Senegal).

Technical Program and Training Coordinator, U.S. Peace Corps, Cotonou, Benin (formerly Dahomey) (1970-1971)

Directed first village-level grain storage project implemented throughout southern Benin. Supervised 8 PCVs and worked closely with extension, research, and government officials. Obtained and managed use of external funding. Co-designed small-scale cement stave silo for family-level grain storage. Project resulted in construction and field testing of 50 experimental dryer/silo units. Represented Dahomey at international conference on "Grain Storage in the Humid Tropics" held in Nigeria. Planned and directed two cycles of in-country training for new Ag Volunteers, and developed first training manual. Also designed and supervised technical training in the Virgin Islands for 20 Peace Corps trainees assigned to development projects in Dahomey. Taught courses in English and French on principles of tropical agriculture, and assisted with teaching cross-cultural studies to volunteers of varying ages and diverse backgrounds.

Volunteer, Grain Storage and Rural Development, U.S. Peace Corps, Ita-Djebou, Benin (formerly Dahomey) (1967-1970)

Evaluated traditional on-farm methods of storing grain, primarily maize, in southern Dahomey. Planned adaptive research to determine improved storage and handling practices which would reduce substantial losses occurring under traditional system. Tested and demonstrated new techniques and dryer/silo structures with selected farmers. Additional projects included initiating garden/orchard programs in area schools, procuring funds for and supervising construction of a 2-room primary school building, designing and building rainfall collection/water storage tanks for villagers, and advising rural 4H-type rural youth clubs. Service preceded by 5-month intensive agricultural, cross-cultural and French language training by Peace Corps in Louisiana, the Virgin Islands, and Trinidad (College of Tropical Agriculture).

EDUCATION

- Master of Agriculture, Plant and Soil Science, University of Minnesota, St. Paul, Minnesota, 1972-1975
- Bachelor of Arts, Political Science, Amherst College, Amherst, Massachusetts, 1963-1967

RECENT PROFESSIONAL DEVELOPMENT

- Bi-monthly sessions of the Twin Cities Agricultural Issues Round Table organized by the University of Minnesota's Dept. of Applied Economics and featuring presentations by leaders of the agribusiness community and government decisions-makers (ongoing since 2000)
- Half-day workshop on "Dealing with Trade Barriers" organized by the Minnesota Trade Office and the International Business Program of Metropolitan State University (October 2003)
- One-day USDA/CREES (Cooperative Research, Extension and Education Services) grants workshop, St. Paul, Minnesota (September 2002)
- Three-day series of meetings, workshops and networking activities in association with the 40th anniversary celebration of the U.S. Peace Corps, including Friends of Benin meeting with Benin's Ambassador to the U.S., Washington DC (June 2002)
- One-day intensive short course titled "Organic Farming 101: Principles, Practices, Certification, and Marketing" organized by the Midwest Organic and Sustainable Education Services (MOSES), La Crosse, Wisconsin (February 2002)
- One-month intensive 3-credit core course for Master Gardeners taught by specialists from the University of Minnesota Extension Service, St. Paul, Minnesota (January 2002)
- Half-day workshop at the University of Minnesota on FISH!, an exciting approach to energize staff, boost moral and improve results in the workplace based on Seattle's famous Pike Place fish market (January 2002)
- Two-day workshop on "Writing Winning Grants" presented by Dr. Stephen Russell, co-founder of Grant Writers' Seminars and Workshops, LLC, St. Paul, Minnesota (March 2000)

LANGUAGES

- English and French: spoken and written fluency
- Spanish, Yoruba, Bambara, and Kinyarwanda: elementary

SELECTED REPORTS & PUBLICATIONS

- Evaluation of the USAID-funded Collaborative Agricultural Research Networks in West and Central Africa. Senior author. Final Report submitted to the West African Regional Program (WARP) of USAID by the ARD-RAISE Consortium. 2004.
- Master Plan for Rural Development: A Market-driven Approach to Poverty Alleviation in Rural Madagascar. Co-author. 5-year strategic plan prepared for Madagascar's Ministry of Agriculture, Livestock and Fisheries (MAEP) by the International Development Division of Land O'Lakes with MAEP staff. 2004.
- Memorandum of Understanding between the Mekong River Commission, the Mississippi River Basin Alliance, and the University of Minnesota Water Resources Center concerning "Cooperation in Decision Making in Integrated Transboundary River Basin Management." Co-author. 2004
- Madagascar Dairy Triangle Development and Milkshed Management: Cooperative Agricultural Extension, Cooperative Capacity Building, and Milk Collection System Rehabilitation. Co-author. Grant proposal submitted by Cooperative Resources International (CRI) to USAID's Dairy Enterprise Initiative. 2003.
- Ecosystem Connections (Mekong River delegation hopes to learn from Mississippi's experience). Author. Article in ECOS, the environmental communiqué of the Council of State Governments. Winter 2004. Vol. 11, No. 1. (originally published as feature story in the December 2003 issue of MINNEGRAM by the University of Minnesota Water Resources Center). 2003.
- Phase One Project Implementation Report. Author. Report on the project titled "Mekong-Mississippi Partnership: Improving Policy Decision-making Processes" prepared for the University of Minnesota's Water Resources Center and the Mississippi River Basin Alliance and submitted to the Council of State Government's State Environmental Initiative. 2003.
- "Mekong-Mississippi Partnership: Improving Policy Decision-making Processes." Co-author. Grant proposal submitted by the University of Minnesota Water Resources Center in conjunction with the Mississippi River Basin Alliance to the U.S. Council of State Government's State Environmental Initiative. 2003.
- CTI Introduces the Omega V Grinder to Senegal. Author. HARVEST. Spring 2003 Newsletter. Compatible Technology International. 2003
- Annual Workplan and Quarterly Reports for 2002 for project entitled "Building Senegal's Trade in Horticultural Commodities with the U.S." funded by USAID through the African Trade and Investment Policy (ATRIP) program. 2002.
- Perspectives on Exporting Fresh Produce from West Africa into U.S. Markets. Co-author. Comments prepared for the panel on "Regional Cooperation on Sanitary and Phytosanitary Issues" at the US-UEMOA Seminar held June 17, 2002 on Advancing Regional Integration, Washington, DC. 2002.
- Strengthening the Engagement of Morocco's Civil Society in Water Resources Management of the Souss-Massa. Co-author. Grant proposal submitted with IAV Hassan II to the U.S. Embassy Democracy/Governance Working Group in Rabat, Morocco. 2002.
- Strengthening Water Resources Management in Morocco. Co-author. Grant application submitted with IAV Hassan II to the Association Liaison Office for University Cooperation in Development (ALO) for funding under the program titled "Institutional Partnerships in Higher Education for International Development." 2001.
- Building Senegal's Trade in Horticultural Commodities with the U.S. Co-author. Grant application submitted to the U.S. Agency for International Development (USAID) through the African Trade and Investment Policy (ATRIP) Program in collaboration with SYSPRO (Senegalese NGO) and Lincoln University. 2001.
- Improving the Performance of the Global Fruit and Vegetable Sector. Co-author. Grant proposal submitted to the U.S. Agency for International Development (USAID) through the Partnerships for Food Industry Development (PFID) Program in collaboration with UC/Davis, Lincoln University, IFT, Sparks, Agland, 6 private U.S. food business companies, and a variety of overseas partners. 2000.

- Strengthening Outreach Programs for Moroccan Agriculture through the Meknes-Minnesota Partnership. Senior author. Grant proposal prepared for the 2000 Solicitation of The Association Liaison Office (ALO) for University Cooperation in Development through its program called “Institutional Partnerships in Higher Education for International Development” funded by the U.S. Agency for International Development (USAID) in collaboration with the National School of Agriculture (ENA) in Meknes, Morocco. 2000.
- Dairy Development Program for Madagascar’s Fianarantsoa Region. Co-author. Grant proposal submitted to the U.S. Agency for International Development (USAID) for the 1999 Dairy Directive in collaboration with the University of Antananarivo’s School of Agriculture (ESSA), SAF-FJKM, and AFARO. 2000.
- Dairy Management Training Program for Russia’s Dmitrov Raion. Senior author. Grant proposal submitted to the U.S. Agency for International Development (USAID) in collaboration with the Russian Farm Community Project. 1999.
- Save the Harvest: Promoting Improved Technologies for Reducing Post-harvest Losses of Cereals in Eastern and Southern Africa. Co-author. Grant proposal submitted to the Common Market for Eastern and Southern Africa (COMESA) in collaboration with the Kenya-based International Centre of Insect Physiology and Ecology (ICIPE). 1999.
- Enhanced Partnership for the 21st Century. Senior author. Strategic planning proposal for the Institut Agronomique et Veterinaire Hassan II (Morocco) and the University of Minnesota. 1999.
- Project proposal, detailed annual workplans, terms of reference for dozens of consultants and dozens of short-term training programs as well as quarterly, annual and final project reports for the Program of Support to Agribusiness in Morocco funded by USAID. 1994-1998.
- Technology Transfer in Management of Stored-Grain Pests. Co-author. Book chapter in Stored Grain Ecosystems edited by Jaya, White, and Muir. Marcel Dekker, Inc, New York, New York. 1995.
- Morocco-Minnesota: An Innovative Model for International Collaboration in Agricultural Training and Research. Paper presented at the American Society of Agronomy meetings, Denver, Colorado. 1991.
- The Development of a System of Grain Quality Standards for Beans and Sorghum in Rwanda. Senior author. Book chapter in Uniformity by 2000: Highlights of an International Workshop on Maize and Soybean Quality. Edited by Lowell D. Hill. University of Illinois, Champaign, Illinois. 1991.
- Proceedings of National Conference on Post-harvest Technology held in Kigali, Rwanda. Co-editor. 1989.
- Post-Harvest Technology Development in Rwanda. Principal author. Grant proposal for post-contract linkage proposal between the University of Minnesota and Rwanda submitted to and funded by USAID/Rwanda. 1988.
- Storage of Beans and Sorghum in Rwanda: Synthesis of Research, Recommendations, and Prospects for the Future. Co-author. Misc. Publication 51-1988. Minnesota Agricultural Experiment Station, University of Minnesota. 1988.
- Evaluation of Applying Grain Quality Standards to Bean and Sorghum Markets in Rwanda. Co-author. Misc. Publication 50-1987. Minnesota Agricultural Experiment Station, University of Minnesota. 1987.
- Alternative Storage Management for Beans and Sorghum in Rwanda. Co-author. Misc. Publication 48-1986. Minnesota Agricultural Experiment Station, University of Minnesota. 1986.
- Improvement of Post-Harvest Management of Staple Food Stocks in Rwandan Cooperatives and Pre-Cooperatives. Co-author. Co-author. Grant proposal submitted to and awarded by the U.S. Food Industry Crusade Against Hunger (FICAH). Centre de Formation et de Recherche Cooperative in collaboration with OPROVIA and the University of Minnesota. 1986.
- Grain Quality Control Program for Cooperative Silo Managers (Rwanda). Principal author. Unpublished manuscript distributed within Rwanda. 1986.

- Underground Bag Storage of Edible Beans in Rwanda. Co-author. Paper presented at the Second International Conference on Geostuctural Design. St. Paul, Minnesota. 1986.
- A Survey of Bean Genotypes Grown in Rwanda. Co-author. Annual Report of the Bean Improvement Cooperative. Volume 28. 1985.
- An Evaluation of the Agricultural Technical Packages for the Republic of Niger. Co-author. Consultancy report prepared for USAID by Ithaca International. 1983.
- The Storage of Cereal Grains in Tropical Climates. Master of Agriculture integrating degree paper. University of Minnesota. 1975.