

CAROL KERVEN CURRICULUM VITAE

Director: Odessa Centre Ltd. Research and consultancy on livestock systems in semi-arid areas, www.odessacentre.co.uk

Visiting Researcher: Imperial College London, Division of Ecology and Evolution, Faculty of Natural Sciences, UK

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UK Citizen, born Kenya

Married, one daughter

Profile

Trained as a social anthropologist and worked for more than thirty years as an applied research socio-economist in agricultural and livestock development, first in Africa, and since 1995 mostly in former Soviet Central Asia. Experienced in the capacity of team leader and social scientist in all stages of development work from project proposal, feasibility study, research and project design, management, implementation, appraisal and evaluation. Worked as a short-term consultant and on long-term assignments with governments, international donor agencies, NGOs, private consulting firms and research institutes. Special fields of research and expertise are in marketing of livestock products from semi-arid regions, and in pastoral household economic dynamics. Previously editor of the peer-reviewed journal *Nomadic Peoples*, and now founder and Editor-in-Chief of a new international peer-reviewed journal *Pastoralism – research, policy and practice*. Director of a research and consultancy firm Odessa Centre Ltd., UK.

Post secondary education

<i>Institution</i>	University of Sussex, UK
<i>Date:</i>	October 1969 to July 1972
<i>Degree obtained:</i>	BA 2.1 (Hons.) Social Anthropology, School of African and Asian Studies

<i>Institution</i>	University of Toronto, Canada
<i>Date:</i>	October 1972 to September 1973
<i>Degree obtained:</i>	MA Social Anthropology

<i>Institution</i>	University of Toronto, Canada
<i>Date:</i>	October 1973 to July 1977
<i>Degree obtained:</i>	PhD Social Anthropology. Canada Council Scholarships in 1975 and 1976.

Language skills: (1 to 5 for competence)

<i>Language</i>	<i>Reading</i>	<i>Speaking</i>	<i>Writing</i>
English (mother language)	5	5	5
French	3	2	1
Swahili	1	3	1
Russian	2	2	0

Professional Experience

<i>Date</i>	March 2015
<i>Location</i>	Rwanda
<i>Funding Agency</i>	World Bank
<i>Position</i>	Lead Livestock Specialist
<i>Description</i>	Team member on a World Bank mission on “Agricultural Risk Solutions assessment” for the government of Rwanda. The objective of my mission was to assess current risk management measures in water and feed availability for livestock production; to identify gaps in existing risk management approaches; and to make recommendations for strengthened risk management within the identified areas.

<i>Date</i>	Sept 2014
<i>Location</i>	Hong Kong, China
<i>Funding Agency</i>	UBM, UK and China
<i>Position</i>	Keynote speaker to World Cashmere Forum
<i>Description</i>	After the end of the Soviet Union, goat breeds became mixed on new private farms. For more than ten years the Odessa Centre has been assessing the quality of these CA indigenous goats kept in villages. They produce cashmere, some of which is very fine and in high demand. The Odessa Centre is advising new projects on assessing and developing the central Asian cashmere goats. Increasing the commercial value of these goats means Kyrgyz villagers can benefit more from the cashmere market.

<i>Date</i>	May-June 2014
<i>Location</i>	Zambia
<i>Funding Agency</i>	European Union
<i>Position</i>	Team Leader, consultant to NIRAS, Denmark
<i>Description</i>	Designing a study for the “Socio-Economic Analysis of the Determinants of Conservation Agriculture Adoption in Zambia”, on behalf of the European Union delegation in Zambia. Interviews with government, donor, NGO and research stakeholders in the capital city and with small-scale crop farmers in two rural provinces. The aim was to identify existing knowledge gaps on the key determinants of conservation agriculture adoption, nonadoption and dis-adoption and to develop a methodology to better address the challenges faced by small scale farmers in scaling up conservation agriculture in Zambia.

<i>Date</i>	April-June; Oct-Nov 2014; March-June 2015
<i>Location</i>	Kyrgyzstan
<i>Funding Agency</i>	Helvetas Swiss Intercooperation
<i>Position</i>	Consultant
<i>Description</i>	For “Small and Medium Enterprise Development in Alai and Chon Alai – Kyrgyzstan”, assisting in design of farmer training packages on harvesting and grading cashmere; Advise on elite cashmere breeding flock, organising international lab tests for fibre from superior indigenous goats; Design plan for testing sample of 400 cashmere goats from farmers’ flocks in 27 villages of the Project area; Discuss future cashmere marketing development options with lead cashmere firms cooperating with the Project. Recommend value chain analysis for cashmere and yak fibres.

<i>Date</i>	Jan-March 2014
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<i>Location</i>	Ethiopia
<i>Funding Agency</i>	Department for International Development (DfID) United Kingdom
<i>Position</i>	Consultant
<i>Description</i>	Lowland Design for Next Generation of Productive Safety Net Programme (PSNP) and Household Asset Building Programme, Ethiopia. Assignment in Ethiopia to assist the Joint Technical Committee and Working Group, reviewing appropriateness and efficiency of the PSNP in lowland areas, and propose recommendations how to better achieve the objectives, for livelihood diversification and resilience activities across Ethiopia's lowland dryland pastoral and agro-pastoral regions.

<i>Date</i>	Aug 2013-Mar 2014 (6 months)
<i>Location</i>	UK and Rome Italy
<i>Funding Agency</i>	FAO (Food and Agriculture Organisation of the United Nations)
<i>Position</i>	Consultant Team Leader
<i>Description</i>	Senior editor preparing a Background Paper on "Human, Social, political Dimensions of Resilience" for the World Bank, FAO, the CGIAR Centres, CIRAD/CILSS and other organizations to develop a Flagship Report on the "Economics of Resilience in the Drylands of Sub-Saharan Africa (SSA)" as a contribution to the dialogue by policy makers, countries and development partners to create measures to enhance the resilience and to reduce vulnerability of the dryland dwellers. Commissioning and coordination of contributions from 8 senior academic researchers in UK, USA, France and Senegal into a five section report.

<i>Date</i>	Mar-Dec 2013
<i>Location</i>	UK
<i>Funding Agency</i>	International Land Coalition (University of Bern)
<i>Position</i>	Consultant
<i>Description</i>	Editing and commissioning research papers for a special issue on Pastoral Land Rights for open access journal of <i>Pastoralism – research, policy and practice</i> (SpringerOpen).

<i>Date</i>	June-Sept 2012
<i>Location</i>	UK and Kenya
<i>Funding Agency</i>	International Livestock Research Institute (ILRI)
<i>Position</i>	Consultant
<i>Description</i>	Preparing Technical Brief on "Livelihoods and Basic Services Support in the Drylands of the Horn of Africa" (co-author John Morton), for Technical Consortium hosted by the Consortium of International Agricultural Research Centres (CGIAR) in partnership with the Food and Agriculture (FAO) Investment Centre.

<i>Date</i>	Nov 2011 – Nov 2014
<i>Location</i>	Britain, Kazakhstan and Turkmenistan
<i>Funding Agency</i>	Leverhulme Trust to Imperial College London
<i>Position</i>	Research Fellow, Imperial College London
<i>Description</i>	Part-time researcher on 4-year project "Mobility versus Exclusion: Limits to Ideal Free Distributions in Pastoralist Systems". The project will identify environmentally sound and economically profitable pastoral land tenure systems. I am conducting field research at rangeland study areas in Kazakhstan with national scientific partners. The project is testing ecological models, building on data collected by our earlier field research projects from 1996 to 2006, and new data. The project combines the insights and

	approaches of ecological modelling and social anthropology to produce an inter-disciplinary understanding of pastoral land use in erratically productive, heterogeneous rangeland environments.
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<i>Date</i>	Nov 2011 – January 2012
<i>Location</i>	Kenya and Somalia
<i>Funding Agency</i>	DFID to Food and Agriculture Organization (FAO)
<i>Position</i>	Team Leader Consultant
<i>Description</i>	Leading first Annual Review of Somalia Employment and Economic Development (SEED) Programme, a 4 year programme for 13.9 million GBP in Somalia. The programme's goal is to improve the economic and employment prospects in Somalia, targeting young people and women in conflict affected communities. The final objective is to contribute to improve stability in Somalia through economic growth and sustainable employment. The reviewer spent 2 weeks in Somaliland and Puntland, meeting beneficiaries, partners (ILO, Save the Children, UNDP) and a number of Somali and Italian NGOs involved in the project.

<i>Date</i>	April 2011-February 2013
<i>Location</i>	UK and global
<i>Funding Agency</i>	International Fund for Agricultural Development (IFAD)
<i>Position</i>	Consultant
<i>Description</i>	Grant of USD 200,000 from IFAD to organise two international workshops and study tours on "Inter-regional learning on animal fine fibre processing and niche markets", held in Kyrgyzstan and Bolivia. The objective is to increase incomes of rural poor producers of animal fibres in Africa, Asia and Latin America, by leaning exchanges between livestock producer groups and other key players, to gain learn best practices on processing and marketing of high-value animal fibres. 50 participants invited from 25 countries.

<i>Date</i>	November 2011
<i>Location</i>	Sri Lanka
<i>Funding Agency</i>	United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
<i>Position</i>	Consultant
<i>Description</i>	Centre for Alleviation of Poverty Through Sustainable Agriculture organised a week-long capacity building workshop on agricultural policy for sustainable agriculture for poverty reduction and food security. I helped to facilitate the course for 25 senior professional agricultural officers and researchers, and presented a module on farming systems research for poverty alleviation.

<i>Date</i>	October 2011
<i>Location</i>	Beijing, Peoples Republic of China
<i>Funding Agency</i>	UBM UK http://www.ubm.com/ and the Chinese Chamber of Commerce
<i>Position</i>	Consultant
<i>Description</i>	A keynote presentation to delegates at the World Cashmere Forum in Beijing. I gave a presentation on the sustainable development of cashmere marketing in Central Asia (Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan) to benefit producers. Gave interviews to several journals of trade and environment magazines. See publications.

<i>Date</i>	March-June 2011 and February 2012
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<i>Location</i>	UK and Kyrgyzstan
<i>Funding Agency</i>	University of Central Asia, Kyrgyzstan
<i>Position</i>	Consultant
<i>Description</i>	Prepared a study and several publications on “Agro-pastoralism and mountain societies in Central Asia” for the Mountain Societies Research Centre at the University of Central Asia. The desk study involved locating published and “grey” literature relating to farmers and pastoralists in mountain regions of Central Asia (Kyrgyzstan, Kazakhstan and Tajikistan), preparing a paper for discussion at an international Symposium on “Pastoralism in Central Asia” and leading the authorship of a publication.

<i>Date</i>	Jan 2010-March 2011
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	United Nations University, Bonn
<i>Position</i>	Consultant
<i>Description</i>	Providing technical advice to Tajikistan Livestock Research Institute on implementing adaptive research project “Market-based incentives for sustainable management of indigenous goats in Pamirs of Tajikistan”. Project of the Global Environmental Facility (GEF) United Nations Environment Programme (UNEP) on “Sustainable Land Management in the High Pamirs and Pamir-Alai mountains in Central Asia”.

<i>Date</i>	Nov 2009-Jan 2010
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	Food and Agriculture Organisation (FAO), Rome
<i>Position</i>	Consultant
<i>Description</i>	Study of cashmere value marketing chain in Pamir mountains of Gorno Badakhshan, Tajikistan. Conducted 3 week field survey of villages raising goats in this region, with team of Kyrgyz and Tajik livestock specialists. Interviews with cashmere traders in Kyrgyzstan and Tajikistan. Additional desk study of cashmere value chain from Tajikistan. Participated in FAO project workshop in Dushanbe, on “Unlocking the Pamirs’ Potential”.

<i>Date</i>	Feb 09-April 09
<i>Location</i>	Ethiopia
<i>Funding Agency</i>	Institute for Environment and Development, London
<i>Position</i>	Consultant
<i>Description</i>	Member of Odessa Centre Ltd team. Carried out field and library studies on the costs, benefits and opportunity costs of pastoralism versus irrigated crop farming in the Afar Region of Ethiopia.

<i>Date</i>	Feb 06 to Oct 2009
<i>Location</i>	UK and China
<i>Funding Agency</i>	The Macaulay Institute, UK
<i>Position</i>	Research Associate
<i>Description</i>	Co-Scientific Manager of European Commission INCO-DEV research project ‘Range Enclosure on the Tibetan Plateau of China: Impacts on Pastoral Livelihoods, Marketing, Livestock Productivity and Rangeland Biodiversity’. Three and half year collaborative and multidisciplinary project involved four European institutes, four Chinese institutes and an international agricultural research organisation. My responsibilities included delivery of scientific quality and progress and co-ordination of fieldwork programmes. Head of field work package to collect data on pastoral household economics and livestock marketing. The project was carried out

	in four Tibetan pastoral livestock regions of the Peoples Republic of China.
<i>Date</i>	Oct- Dec 2008
<i>Location</i>	UK and South Africa
<i>Funding Agency</i>	League for Pastoral Peoples and Endogenous Livestock Development, (Germany)
<i>Position</i>	Researcher
<i>Description</i>	Report on “Cashmere from the Pamirs: helping Mountain Farmers in Kyrgyzstan”, with Kyrgyz livestock specialist; collected new data on marketing cashmere in the Pamir mountains. Participated in international workshop in Cape Town, on “Niche Marketing of Livestock Products”.
<i>Date</i>	August-Sept 2008
<i>Location</i>	UK
<i>Funding Agency</i>	Tufts University, USA and Save the Children USA and UK
<i>Position</i>	Researcher
<i>Description</i>	Literature review for “Milk Matters” for Pastoral Health and Nutrition Initiative, Save the Children USA and UK in Ethiopia, and Feinstein International Centre at Tufts University. Investigating the role of animal milks in the diets of children in pastoral communities and identifying key interventions to enhance milk supply from animals in pastoral regions and their impact on nutritional status of children. Prepared report and annotated bibliographies on East Africa and Horn, Other Africa and Rest of the World.
<i>Date</i>	Feb 08 to June 08
<i>Location</i>	Kyrgyzstan
<i>Funding Agency</i>	Aga Khan Development Network (MSDSP Kyrgyzstan)
<i>Position</i>	Consultant
<i>Description</i>	Assessment of cashmere quality and international market chain in two mountainous regions of southern and central Kyrgyzstan. Hired two Kyrgyz sub-contractors specialising in animal fibres and marketing. Trained local staff to collect 1,200 samples of cashmere from goats in 50 villages, and arranged to have these tested at laboratories in USA and Australia. Assisted MSDSP in organising village groups to comb, sort and bulk up raw cashmere for sale at premium prices to new buyers. Report on the results and potential for developing cashmere marketing to benefit Kyrgyz farmers and small scale traders.
<i>Date</i>	Jan 08 to March 08
<i>Location</i>	Ethiopia
<i>Funding Agency</i>	USAID
<i>Position</i>	Consultant
<i>Description</i>	Odessa Centre Ltd on evaluation of USAID-funded programme “Pastoral Development Initiative” for \$29 million since 2005. The programme implemented by seven international and national NGOs, in the three pastoral regions; the team carried out field site visits, interviews with pastoral women and men, local officials, NGO field staff and local traders. Sub-projects included community-based water and livestock development, small-scale entrepreneurship, market development, micro-credit, health and education.
<i>Date</i>	April 07 to June 07
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	United Nations Development Programme (Tajikistan) to German Agro Action

<i>Position</i>	Consultant
<i>Description</i>	Assessment of cashmere quality and market chain in Zerafshan valley, a mountainous region of northwest Tajikistan. Trained local staff to collect 250 samples of cashmere from goats in 20 villages, and arranged to have these tested at a UK laboratory. Report on potential for developing cashmere marketing to benefit Tajik farmers and small scale traders.

<i>Date</i>	Nov 06 to Feb 2007
<i>Location</i>	UK and Kyrgyzstan
<i>Funding Agency</i>	Dept. for International Development UK (DFID), Global Livestock Collaborative Research Support Programme, USA, and World Initiative for Sustainable Pastoralism (IUCN).
<i>Position</i>	Consultant
<i>Description</i>	Organisation and hosting of an international conference on cashmere production, research and marketing, from 27-30 January 2007 in Bishkek, Kyrgyzstan. Total of 42 participants representing 16 countries. Follow up with a proposal for funding an international centre for cashmere research and creation of website www.worldcashmere.com

<i>Date</i>	Sept- Oct 2006
<i>Location</i>	Somaliland, Puntland and Kenya
<i>Funding Agency</i>	European Commission, East Africa
<i>Position</i>	Consultant
<i>Description</i>	Mid-term evaluation of project "Improvement and Diversification of Somali Livestock Trade and Marketing" implemented by Terra Nuova, an Italian NGO. The 3 year long project is providing technical advice to Somali local authorities, veterinarians, livestock traders and exporters on meeting international health and safety standards for livestock exports, and identifying new profitable markets for Somali livestock.

<i>Date</i>	March-June 2006
<i>Location</i>	UK
<i>Funding Agency</i>	International Union for Conservation of Nature (IUCN), Nairobi, Kenya
<i>Position</i>	Consultant
<i>Description</i>	Report on 'Economics of Pastoralism – Western and Central Asia'. Document information on economic valuations of pastoralism and marketing of livestock products, from published and grey literature. Aim was to demonstrate the usefulness of economic valuation for decision-making and use in advocating better policies for pastoral production systems and marketing.

<i>Date</i>	March and Oct 2006
<i>Location</i>	Afghanistan
<i>Funding Agency</i>	DFID to GRM International, UK
<i>Position</i>	Consultant
<i>Description</i>	Designed a cashmere assessment programme for 10 provinces of Afghanistan and trained Afghan animal husbandry officers in collection of cashmere samples. Organised testing of samples in UK, report and gave presentation on the international competitiveness of Afghan cashmere.

<i>Date</i>	Oct 2003- Oct 2006
<i>Location</i>	Kazakstan and Kyrgyzstan
<i>Funding Agency</i>	USAID, Global Livestock Collaborative Research Support Programme (GL

	CRSP) University of California, Davis
<i>Position</i>	Consultant, part-time
<i>Description</i>	Participant in research and development project 'Developing institutions and capacity for sheep and fibre marketing in Central Asia', headed by University of Wyoming with Colorado State University and University of Wisconsin. Responsible for activities on farmer training in cashmere marketing, household surveys on marketing of animal fibres, liaison with international processors and potential investors in the animal fibre industry in Central Asia, and developing quality assurance centres.

<i>Date</i>	June 2005
<i>Location</i>	Mongolia
<i>Funding Agency</i>	British Embassy, Kazakhstan and Kyrgyzstan, and USAID Central Asia
<i>Position</i>	Team Leader
<i>Description</i>	Led group of 4 Kyrgyz and 2 Kazakhs from government, private sector and research, together with a Scottish cashmere expert, to study Mongolia's cashmere industry, including production, processing and export.

<i>Date</i>	Sept 2004
<i>Location</i>	Kyrgyzstan
<i>Funding Agency</i>	Aga Khan Foundation, Geneva
<i>Position</i>	Consultant
<i>Description</i>	Analysis of livestock systems in two districts of southern Kyrgyzstan (Osh), assessing marketing chains for livestock products, potential to add value, increasing producer prices, the role of livestock in livelihood strategies, and marketing constraints that limit household income. Recommendations for implementation by a new 10 year project, Mountain Societies Development Support Programme, under the Aga Khan Foundation.

<i>Date</i>	Feb 2002 - 2006
<i>Location</i>	Kazakhstan
<i>Funding Agency</i>	National Science Foundation, USA
<i>Position</i>	Consultant, part-time
<i>Description</i>	Participant in research project by National Resource Ecology Laboratory, Colorado State University, 'Biocomplexity, Spatial Scale and Fragmentation: Implications for arid and semi-arid ecosystems', covering 20 study sites in four continents. Activities included fieldwork annually on pastoral household economic performance and economies of livestock production systems in relation to environmental scale and resource access.

<i>Date</i>	June 2003
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	Aga Khan Foundation, Dushanbe
<i>Position</i>	Consultant
<i>Description</i>	Assessment of market potential of cashmere goats for increasing income security of villagers in mountainous regions. Fieldwork in Rasht Valley, interviews with village women and men, and with staff of Mountain Societies Development Support Programme, a multi-donor funded NGO.

<i>Date</i>	April and September 2002
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	Food and Agriculture Organisation, Rome
<i>Position</i>	Consultant team leader
<i>Description</i>	Social assessments for World Bank project preparation on Rainfed Agriculture project in Rasht Valley and Katlon mountainous areas of Tajikistan. Fieldwork in three districts, interviews with villagers, government officials and donor project personnel.

<i>Date</i>	March 2001
<i>Location</i>	Kyrgyzstan
<i>Funding Agency</i>	Department for International Development (DFID), UK
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	On DFID project 'Sustainable livelihoods for livestock-producing communities', for producers in remote mountainous settlements of two regions in Kyrgyzstan. Prepared report 'Livestock income generation, services and input supply', visiting 5 of the 6 inception project village areas.

<i>Date</i>	March 2002 –August 2003
<i>Location</i>	Kazakstan and Kyrgyzstan
<i>Funding Agency</i>	USAID, Global Livestock Collaborative Research Support Program (GL CRSP)
<i>Position</i>	Consultant
<i>Description</i>	Co-principal investigator in research project led by National Resource Ecology Laboratory, Colorado State University, USA. Project entitled 'Feasibility of market development and support services for livestock products'. Fieldwork and data analysis on producer marketing of wools and animal fibres, study on demand and supply of these products, resulting in policy guidelines on improving marketability for producers.

<i>Date</i>	January-April 2001
<i>Location</i>	UK
<i>Funding Agency</i>	Department for International Development (DFID), UK
<i>Position</i>	Editor
<i>Description</i>	Editing a 14 chapter contributed book, 'From State Farms to Private Flocks: Prospects for Pastoralism in Kazakstan and Turkmenistan. Curzon Press, London. The book contains results from British, USA and Central Asian scientists, on a two-year DFID funded research project.

<i>Date</i>	Nov 2000 to April 2004
<i>Location</i>	Kazakstan and Turkmenistan
<i>Funding Agency</i>	European Union INCO Copernicus (Macaulay Institute, Aberdeen, UK)
<i>Position</i>	Field researcher
<i>Description</i>	Participant in 3 year research project, 'Desertification and Regeneration: Modelling the Impacts of Market Reform on Central Asian Rangelands' in collaboration with five Central Asian research institutes (livestock, desertification, rangeland agronomy and botany). Responsible for work package on 'Economic analyses of pastoral enterprises'. Annual fieldwork being carried out in Kazakstan in the Moinkum Desert and in Kara Kum Desert, Turkmenistan. Responsible for organising quarterly surveys of 80 livestock producing households in study sites over two years.

<i>Date</i>	May –July 2000
<i>Location</i>	Kazakhstan and Turkmenistan
<i>Funding Agency</i>	International Livestock Research Institute (ILRI), Nairobi
<i>Position</i>	Team Leader
<i>Description</i>	Led identification mission for a three-year project to increase smallholder pastoralists' income from marketing of wools, fibres and pelts, in collaboration with national research institutes and the commercial sectors.

<i>Date</i>	April-May 1999
<i>Location</i>	Tajikistan
<i>Funding Agency</i>	Aga Khan Foundation
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	For Mountain Societies Development Support Programme, member of a three-person team investigating potential for increasing livestock production and marketing in Gorno Badakshan, a region in the Pamir Mountains in eastern Tajikistan. Field data collected from several valley farming communities and livestock producers on highlands.

<i>Date</i>	June-August 1999
<i>Location</i>	UK
<i>Funding Agency</i>	Department for International Development (DFID UK Government)
<i>Position</i>	Community Livestock Development and Research Specialist
<i>Description</i>	Preparation of a project proposal for community livestock development and adaptive research in the mountain regions of Kyrgyzstan, for DFID Central Asia desk, Social and Natural Resource Advisors.

<i>Date:</i>	July-August 1998 and March –April 1999
<i>Location</i>	Kazakhstan and Turkmenistan
<i>Organisation</i>	University of California, Global Livestock Collaborative Research Support Programme (GL CRSP).
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Project 'Integrated Tools for Livestock Development and Rangeland Conservation in Central Asia'. Field studies assessed the effects of market reform on sales of livestock and animal products by households and former state farms. Supply and demand data for livestock and their products were analysed.

<i>Date</i>	October 1997-Jan 2000
<i>Location</i>	Kazakhstan and Turkmenistan
<i>Funding Agency</i>	Department for International Development (DFID) UK Government
<i>Position</i>	Project Leader
<i>Description</i>	Research on project 'Impact of Privatisation on Range and Livestock Management in Semi-arid Central Asia'. Project budget £400,000. Led a team conducting a two-year research programme to explore policy options for improving range and livestock management. The ten-person team of biological and social scientists from the UK, USA and the partner countries in Central Asia conducted detailed field investigations on the effects of policy changes on land use, livestock management, range condition, and household economies of pastoralists. The results are published in an edited book in 2003.

<i>Date:</i>	April 1997
<i>Location</i>	Syria
<i>Funding Agency</i>	International Centre for Agricultural Research in Dry Areas (ICARDA) Pasture, Livestock and Forage Programme
<i>Position</i>	Livestock Research Specialist
<i>Description</i>	Research Proposals on Livestock and Rangeland Systems . Writing proposals for research on livestock and rangeland systems in Central Asia.

<i>Date:</i>	August 1996 - March 1997
<i>Location</i>	Namibia
<i>Funding Agency</i>	Department for International Development (DFID) UK Government, and Natural Resources Institute, UK
<i>Position</i>	Researcher with Overseas Development Institute (ODI)
<i>Description</i>	Researcher on a study of communal rangelands in semi-arid Namibia, investigating economic and land use impacts of a range enclosure movement by private individuals. Organisation of regional workshop for officials, villagers and development agencies to discuss results.

<i>Date:</i>	April-June 1996
<i>Location</i>	Ethiopia
<i>Funding Agency</i>	Overseas Development Agency, UK Government, for Overseas Development Institute (ODI) London
<i>Position</i>	Research Leader
<i>Description</i>	Collaborative Research on Rangeland Privatization Research Leader of a multidisciplinary team with ODI's Pastoral Development Network, undertaking a case study of rangeland privatisation by Borana pastoralists. The study considered some of the effects of economic and political changes on natural resource management in the semi-arid area of Ethiopia's southern rangelands.

<i>Date:</i>	Jan –March 1996
<i>Location</i>	Kazakstan, Turkmenistan and Uzbekistan
<i>Funding Agency</i>	Overseas Development Agency, UK Government, for Overseas Development Institute, London
<i>Position</i>	Principal Researcher
<i>Description</i>	Review of Extensive Livestock Policy Design of a collaborative field research programme between European and Central Asian scientists.

<i>Date:</i>	Sept-October 1995
<i>Location</i>	Ghana
<i>Funding Agency</i>	Information Centre for Low External Input and Sustainable Agriculture (ILEIA), Netherlands
<i>Position</i>	Participatory Research Specialist
<i>Description</i>	Assessment and Training of NGOs in Participatory Agriculture Research. Assessment. Training Northern Ghana Low External Input and Sustainable Agriculture Working Group, local NGOs undertaking participatory agriculture research with farmers in the savannah agro-ecological zone.

<i>Date:</i>	July-August 1995
<i>Location</i>	Kazakstan, Kyrgyzstan and Turkmenistan

<i>Funding Agency</i>	Overseas Development Agency, UK Government, for Overseas Development Institute, London
<i>Position</i>	Research Leader
<i>Description</i>	Review of Planning and Policies on Extensive Livestock Led a review assessing changes in national policies towards the extensive livestock sector in the new Republics of Central Asia. The review recommended a programme of collaborative, multi-disciplinary and policy-oriented research by scientists in Central Asia and at British institutes.

<i>Date:</i>	Nov 1994-June 1995
<i>Location</i>	Tanzania
<i>Funding Agency</i>	Overseas Development Agency (UK Government)
<i>Position</i>	Head of Farming Systems Research Unit
<i>Description</i>	Cashew Research Project in Mtwara, Southern Zone Farming Systems Research Unit at Naliendele Agriculture Research Institute, Mtwara. Collaborated on planning, implementing and analysing farm research with small-scale peasant farmers. Designed and managed a six-village study on indigenous methods of improving soil fertility. Established Government committee to promote input supply and credit to farmers in the Southern Region. Established on-farm participatory research with women rice farmers.

<i>Date:</i>	Jan-March 1994
<i>Location</i>	Zambia
<i>Funding Agency</i>	World Bank
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	North West Province Area Development Project Participated on a World Bank support mission to review beneficiary mobilization by this development project in Zambia's high rainfall forested zone. The project organised subsistence farmers into 30 farmers' credit groups, intended to increase awareness of how farmers could address their constraints. The mission made recommendations on training needs for staff and farmers to increase social mobilization.

<i>Date:</i>	June-August 1994
<i>Location</i>	Sudan
<i>Funding Agency</i>	Agency for Cooperation and Research in Development (ACORD), London
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Evaluation of a Water Resource Development Programme for Pastoralists Participated in the evaluation of the Red Sea Hills Water Resource Development Programme for Beja pastoralists in north-east Sudan. Recommendations made for increasing livestock fodder production, improving para-veterinary training and introducing more appropriate water technologies.

<i>Date:</i>	August-October 1993
<i>Location</i>	Sudan
<i>Funding Agency</i>	DANIDA, Copenhagen
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Final Evaluation of Afforestation and Reforestation Project in the Northern State. The project, supervised by the United Nations Sudano-Sahelian Office (UNSO), aimed to assist small-scale farmers in tackling encroaching sand dunes along the Nile Valley in the desert region of northern Sudan.

<i>Date:</i>	March-May 1993
<i>Location</i>	Kenya
<i>Funding Agency</i>	European Commission, Brussels
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Mid-Term Evaluation of Arid and Semi-Arid Lands/Kenya Livestock Development Project. The programme provided inputs to multiple national and international NGOs to improve livestock production and marketing in ten northern Kenya districts in which pastoralism predominates.

<i>Date:</i>	June-September 1993
<i>Location</i>	Mongolia
<i>Organisation</i>	Institute of Development Studies, University of Sussex
<i>Position</i>	Consultant
<i>Description</i>	Study on marketing of livestock and their products in Mongolia for the Policy Alternatives for Livestock Development (PALD) Project. Responsibilities included field training of Mongolian research staff and interviews with nomadic pastoralists in two ecological zones, one in the forest-mountain high altitude region and the other in the Gobi desert.

<i>Date:</i>	January –February 1993
<i>Location</i>	Malawi
<i>Organisation</i>	Ministry of Agriculture
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Smallholder Sugar Study Member of a team carrying out a study on strategies for expanding sugar cane production by small-scale farmers.

<i>Date:</i>	Six months 1992
<i>Location</i>	London
<i>Funding Agency</i>	Overseas Development Institute, London
<i>Position</i>	Co-editor
<i>Description</i>	‘Range Ecology at Disequilibrium: New Models of Natural Variability and Pastoral Adaptation in African Savannas’, (editors Roy H. Behnke, Ian Scoones and Carol Kerven) Collection of twelve papers by range scientists, ecologists and social scientists, published jointly by the Commonwealth Secretariat, ODI and International Institute for Environment and Development in 1993. The papers endorse a review of mainstream range management practice, and offer several innovative techniques for range management. The book has had considerable influence on policies and practices in range management.

<i>Date:</i>	May-August 1992
<i>Location</i>	Ghana
<i>Funding Agency</i>	European Commission
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Study for Pan African Rinderpest Campaign Project Sociological study for the Pan African Rinderpest Campaign (PARC II). The study advised on methods for promoting community-level livestock farmer associations within northern Ghana. It investigated the social forces which created cohesion or division both within and between agro-pastoral communities, and the role of women in livestock management.

<i>Date:</i>	March-April 1992
<i>Location</i>	Uganda
<i>Funding Agency</i>	European Commission
<i>Position</i>	Consultant Anthropologist
<i>Description</i>	Mid-term Review of Karamojong Development Project Member of a team reviewing this project in the semi-arid region of eastern Uganda. Responsible for organising 3 week rapid rural appraisal by team with agro-pastoral semi-nomadic Karamojong. The project aimed to provide improved roads, water points and veterinary infrastructure, to support NGO projects and to increase livestock and agricultural production.

<i>Date:</i>	August-October 1991
<i>Location</i>	Zambia
<i>Funding Agency</i>	NORAD, Oslo
<i>Position</i>	Research Consultant
<i>Description</i>	Indigenous Soils Classification Project Consultant to Adaptive Research Planning Team (ARPT), Northern Province, to analyse field survey data on the vernacular names and agricultural uses of local soils. This study was initiated by the consultant in 1987 as a collaborative project between different arms of the Research Branch of the Ministry of Agriculture, Zambia.

<i>Date:</i>	Half-time 1990-1992
<i>Location</i>	UK
<i>Funding Agency</i>	Overseas Development Agency (UK Government) and Overseas Development Institute, London
<i>Position</i>	Research Associate
<i>Description</i>	Research on 'Commercial Change in Pastoral Africa: Implications for Donor and National Government Policy'. Co-author on papers providing an improved policy framework for pastoral development in Africa, (see 'Publications'). The study developed a model of commercial change in African pastoral economies and made a case for a new direction in pastoral development policy.

<i>Date:</i>	1990
<i>Location</i>	Kenya
<i>Funding Agency</i>	OXFAM
<i>Position</i>	Team Leader
<i>Description</i>	Mid-term Review of Samburu Development Project Led a participative review of this project in northern Kenya. The project aimed at community development for the pastoral population through decentralised animal health care training, support to women's small business ventures, community education, and monitoring of restocking loans given to families after the 1984 drought.

<i>Date:</i>	1990
<i>Location</i>	Zimbabwe
<i>Funding Agency</i>	Commonwealth Science Council (Commonwealth Secretariat), London
<i>Position</i>	Team Leader
<i>Description</i>	Training in Rapid Rural Appraisal for Agroforestry Led a team of trainers organizing a short course in rapid rural appraisal techniques for mid-career professional foresters and agriculturalists from East Africa. The course covered natural resource appraisal, household interview methods, project design and community participation approaches.

<i>Date:</i>	1989
<i>Location</i>	Sudan
<i>Funding Agency</i>	UNDP
<i>Position</i>	Economic Anthropologist
<i>Description</i>	Area Development Scheme Member of project identification team for the Area Development Scheme, a community-based participatory development project in five regions

<i>Date:</i>	1986-1989
<i>Location</i>	Zambia
<i>Funding Agency</i>	NORAD, Oslo
<i>Position</i>	Anthropologist
<i>Description</i>	Adaptive Research Planning Team (ARPT - Northern Province) Technical assistance to farming systems research project (ARPT). ARPTs were established in each of Zambia's provinces to investigate agricultural constraints among small-scale peasant farmers and design and extend appropriate technical solutions. Involved in participatory research, surveys, field studies, initiation of soil research on indigenous soils, and training of counterparts. Carried out participatory on-farm research on traditional women's crops of bean and rice with women farmers.

<i>Date:</i>	1985-1986
<i>Location</i>	Somalia
<i>Funding Agency</i>	OXFAM
<i>Position</i>	Team Leader
<i>Description</i>	Village and Rural Development Programme Led the evaluation of a community-focused programme aimed at nomadic and settled agro-pastoralists in Somalia's arid central rangelands. The programme assisted self-help groups to build wells and water reservoirs, as well as stabilising sand dunes. The programme's effects on local incomes, livestock grazing patterns and women's participation were assessed.

<i>Date:</i>	1986
<i>Location</i>	Zambia
<i>Funding Agency</i>	NORAD, Oslo
<i>Position</i>	Rural Sociologist
<i>Description</i>	Adaptive Research Planning Team (ARPT) in Northern Province and Luapula. Participated in a diagnostic survey with the multi-disciplinary team and undertook a short study of farming systems research priorities for small-scale paddy-rice growers.

<i>Date:</i>	1986
<i>Location</i>	Botswana
<i>Funding Agency</i>	International Fund for Agricultural Development (IFAD), Rome
<i>Position</i>	Socio-Economist
<i>Description</i>	Pre-feasibility study for Pandamatenga Settlement Scheme Participated in a study for a scheme to develop the area for large-scale commercial farming. The study assessed the potential impacts on small-scale farmers in the area, and proposed agricultural support activities.

<i>Date:</i>	1986
<i>Location</i>	Somalia
<i>Funding Agency</i>	World Bank
<i>Position</i>	Socio-Economist
<i>Description</i>	North East Coast Fisheries Development Pilot Project Participated in a baseline study of 11 fishing villages, part of a fisheries project. Assessed levels of fishing activities, costs and returns of fishing, and conditions under which the target population would participate in a pilot project. Proposals for socio-economic monitoring and evaluation programme, for setting fish prices and for operating the credit scheme.

<i>Date:</i>	1984-85
<i>Location</i>	Sudan
<i>Funding Agency</i>	Independent funding
<i>Position</i>	Research Associate with African Studies Center, Boston University
<i>Description</i>	6 months fieldwork among nomadic and semi-nomadic pastoralists in South Darfur region of western Sudan. Investigated the contribution made by milk to the household economy of cattle-keeping families, through home consumption and sales of dairy products by pastoral women. See "Publications".

<i>Date:</i>	1985
<i>Location</i>	Somalia
<i>Funding Agency</i>	USAID
<i>Position</i>	Team Leader
<i>Description</i>	Mid-term evaluation of Refugee Self-Reliance Project Led mid-term evaluation of a project intended to develop economic opportunities among refugees in Somalia, to provide support to Somali government agencies coordinating refugee affairs and to support socio-economic research on economic development for refugees.

<i>Date:</i>	1985
<i>Location</i>	Syria
<i>Funding Agency</i>	USAID
<i>Position</i>	Consultant
<i>Description</i>	Reviewed a research proposal on mechanization and labour in Middle Eastern and North African agriculture.

<i>Date:</i>	1984
<i>Location</i>	Somalia
<i>Funding Agency</i>	USAID
<i>Position</i>	Consultant
<i>Description</i>	National Refugee Settlement Project Member of the project design team with responsibility for the technical, administrative and socio-economic elements of the Refugee Settlement Project. Project assisted refugees in settling and taking up productive enterprises, and direct economic support to refugees.

<i>Date:</i>	1983
<i>Location</i>	Somalia
<i>Funding Agency</i>	USAID
<i>Position</i>	Researcher
<i>Description</i>	Three months of fieldwork among nomadic pastoralists for Bay Region Socio-Economic Baseline Study, investigating herd management strategies, ecological determinants for livestock production and grazing systems, household economic viability, and pastoral marketing of livestock and dairy products. Study used for planning development interventions by USAID.

<i>Date:</i>	1983
<i>Location</i>	Somalia
<i>Funding Agency</i>	USAID
<i>Position</i>	Consultant
<i>Description</i>	Urbanisation and Out-migration project. Member of team investigating policy planning and research implications of recent urbanisation. The team considered the effects of rapid urbanisation on urban planning, urban services, housing and infrastructure, as well as the effects of rural out-migration on labour markets and capital investment potential from new earnings.

<i>Date:</i>	1981-1982
<i>Location</i>	Botswana
<i>Organisation</i>	USAID, Central Statistics Office, Government of Botswana
<i>Position</i>	Social Research Coordinator
<i>Description</i>	Botswana National Migration Study. Preparation of results from a two-year national survey of 3,400 households, hiring 8 consultants to analyse data, organising international symposium to present results, and editing final report in three volumes published by Government Printers.

<i>Date:</i>	1975-1980
<i>Location</i>	Botswana
<i>Funding Agency</i>	USAID
<i>Position</i>	Part-time consultant
<i>Description</i>	<ul style="list-style-type: none"> • study on sociological aspects of a planned new mining town For Ministry of Mineral Resources and Water Affairs • paper on economic and demographic strata in Botswana for Development Alternatives Inc, Washington DC. • research on policy implications of rural development programmes in terms of their impact on agriculture and migration for the Rural Sociology Unit, Ministry of Agriculture

<i>Date:</i>	1977-1979
<i>Location</i>	Botswana
<i>Funding Agency</i>	USAID, Central Statistics Office, Government of Botswana
<i>Position</i>	Field Coordinator
<i>Description</i>	<p>National Migration Study, Central Statistics Office</p> <p>National survey of 3,400 rural and urban households and 900 mineworkers, including six surveys of the socio-economic and demographic patterns of migration within and from Botswana. Responsible for hiring and training 120 survey enumerators, preparation of household questionnaires and publicity materials, managing 15 vehicles, team leadership in the Kalahari region, analysis of survey results, and publication of interim reports.</p>

<i>Date:</i>	1973-1980
<i>Location</i>	Canada
<i>Organisation</i>	Various organisations
<i>Position</i>	Socio-economic consultant
<i>Description</i>	<p>Consultancies carried out during and after postgraduate studies at the University of Toronto included:</p> <ul style="list-style-type: none"> • survey of two Canadian Indian Band Councils in Northern Ontario for Wabimuko Consultants Inc, (a Native Canadian firm, Toronto) • liaison with native people's associations and preparation of background papers for the Royal Commission on Northern Development, Government of Ontario. • preparation of policy statement on resource development in northern Ontario. For Grand Council Treaty No.9, a northern Ontario Native Canadian association. • compiled data on northern Ontario native peoples; drafted statement of the philosophy of approach to socio-economic development for Grand Council Treaty No.9 for presentation to the Minister of Indian Affairs and Northern Development, Government of Canada.

Teaching positions

University of Toronto, Dept. of Anthropology. Teaching assistant to Prof. Richard Lee, Introductory Anthropology (1972-73) and teaching 4th year undergraduate Theoretical Anthropology 1973-74.

York University, Toronto, Dept. of Anthropology. Teaching assistant to Prof. Philip Gulliver, leading 4th year undergraduate seminar on Theoretical Anthropology. 1974-75.

Main publications and development reports before 1990:

- Academics, Practitioners and All Kinds of Women in Development: a Reply to Peters, *Journal of Southern African Studies* (1984).
- The Role of Milk in a Pastoral Diet and Economy: The Case of South Darfur, Sudan, *International Livestock Centre for Africa* (ILCA) Bulletin No.27, Addis Ababa (1987).
- The Implications of Pastoral Dairy Production for Livestock Development Policies, *International Livestock Centre for Africa* (ILCA) Bulletin No.26, Addis Ababa (1986).
- Mid-term Review of Samburu Development Project, (co-authors P. Kisopia and J. Munyees), OXFAM/Kenya and OXFAM U.K. (1991).
- Rapid Rural Appraisal for Agroforestry, Zimbabwe. With C. Phiri, I. Scoones, H. Sibanda, Commonwealth Science Council, Technical Paper 289, London (1992).
- Formation of Livestock Associations in Northern Ghana, under PARC II. Department of Animal Health and Production, (Republic of Ghana) and Commission of EC, Accra and Brussels (1992).
- Proposed Livestock Marketing Study for Mongolia. Institute of Agricultural Economics, Ulan Bataar, Mongolia and Institute of Development Studies, University of Sussex, England (1993).
- Evaluation Support Mission Report; Red Sea Hills Water Resource Development Programme. ACORD, for OXFAM. London (1994).
- Indigenous Soil Improvement Fertility Study, First Technical Report. (With co-authors), District Forestry Offices/ Rural Integrated Project Support/Soils Section/Farming Systems Research, Min of Agriculture, Mtwara, Tanzania (1995).

Main Publications since 1990

- (Co-editor, with R. Behnke) 'Pastoral Development Network Set 30', Overseas Development Institute (ODI) London (1990).
- (Co-editor, with R. Behnke) 'Pastoral Development Network Set 31', ODI, London (1991).
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- Sikana, P. and C. Kerven. The Impact of Commercialisation on the Role of Labour in African Pastoral Societies, Pastoral Development Network Set 31, ODI, London, (1991).
- Kerven, C. Customary Commerce: A Historical Reassessment of Pastoral Livestock Marketing in Africa Occasional Paper 15, ODI, London (1992). 119 pages
- Behnke, R., I. Scoones and C. Kerven (eds) *Range Ecology at Disequilibrium: New Models of Natural Variability and Pastoral Adaptation in African Savannas*. ODI, IIED and Commonwealth Secretariat, London (1993).
- Sikana, P., and C. Kerven. Incorporating Gender and Household Issues in Farming Systems Research: The Community Approach. In *Tools for the Field: Methodologies Handbook for Gender Analysis and Agriculture* (eds.) H. Feldstein and J. Jiggins, Kumarian Press, Connecticut, USA (1993).
- Sikana, P., C. Kerven and R. Behnke. From Subsistence to Specialised Commodity Production: Commercialisation and Pastoral Dairying in Africa'. *Pastoral Development Network Set 34*, ODI, London (1993).
- Behnke R. and C. Kerven. Redesigning for Risk: Tracking and Buffering Environmental Variability in Africa's Rangelands. *Natural Resource Perspectives*, 1, ODI, London, (1995).
- Kerven, C., H. Dolva and R. Renna Indigenous Soil Classification Systems in Northern Zambia. *The Cultural Dimensions of Development* (eds) M. Warren, D. Brokensha and J. Slikkerveer, Center for Indigenous Technical Knowledge, Intermediate Technology Publications, London, (1995).
- Kerven, C., J. Channon and R. Behnke. *Review of Policy and Planning on Extensive Livestock Development in Central Asia*. ODI Working Paper No. 91, 1996.
- Kerven, C. and R. Behnke. Impacts of Decollectivization on Rangelands and Livestock Marketing in Central Asia.. Workshop Proceedings of Central Asian Regional Livestock Assessment, Small Ruminant/Global Livestock CRSP/ ICARDA, Davis California (1997).
- The Knife Cuts on Two Blades: Reinterpreting Property Rights in Communal Areas of Northern Namibia. For ODA/Natural Resources Institute: The Privatisation of Rangeland Resources in Namibia, ODI, London (1998).
- Routes to Privatisation: Impacts of Decollectivisation on Pastoralists in Kazakhstan and Turkmenistan. *Bulletin of the Pasture, Forage and Livestock Section* ICARDA, Aleppo, Syria (1998).

- Kerven, C. and I. Alimaev. Mobility and the Market: Economic and Social Impacts of Privatisation on Pastoralists in Kazakhstan. Paper presented at conference on 'Strategic Considerations on the Development of Central Asia', Council for Development of Central Asia (Netherlands) and Chinese Academy of Sciences, Urumchi, China. Sept. 13-18. (1998).
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- Kerven, C. and C. Lunch. The Future of Pastoralism in Central Asia. *People and Rangelands* (eds. D. Eldridge and D. Freudenberger). Proceedings of VI International Rangelands Congress, Townsville, Australia. (1999).
- Contributed to Chapter on *International Dimensions*, by the Dahlem International Conference on 'Desertification', Free University of Berlin, 10-15 June 2001. Conference publication edited by James Reynold and Mark Stafford-Smith.
- Kerven, C. 2002. New cashmere goat breeding programme in Kazakstan. *Cashmirror*, vol. 12 Issue 11, Sept. Dallas, Oregon, USA.
- Kerven, C. 2002. The loss of livestock mobility in the new market economies of Kazakstan and Turkmenistan *Symposium Proceedings on Pastoral Land Use Systems in Temperate Asia*, Ulan Bataar, Mongolia, June 2001, eds. T. Chuluun and D. Ojima, Colorado State University (2002).
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- Kerven, C (editor) *Prospects for Pastoralism in Kazakstan and Turkmenistan: From State Farms to Private Flocks*. RoutledgeCurzon, London 2003. 276 pages.
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- Presentation on 'Livestock and Pastoralism in Kyrgyzstan: Social and Economic Implications' at conference on *Kyrgyzstan at the Crossroads*, St. Anthony's College, Oxford University, 3-4 March 2006.
- Presentation on 'Integration of Central Asian Pastoralists into World Cashmere Markets: Opportunities for Improving Livelihoods and Adding Value' at Conference on *Pastoralists and the World Market: History, Problems and Perspectives*. University of Leipzig, Halle-Wittenberg, 27-29 April 2006.
- Presentation on 'Environmental, production and economic impacts of reduced livestock mobility among Kazakh pastoralists' at NATO Advanced Research Workshop on *Socio-Economic Causes and Consequences of Desertification in Central Asia*, Bishkek, Kyrgyzstan 29 May-2 June 2006.
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