

## DR. MED. VET. HABIL ILSE ULRIKE KÖHLER-ROLLEFSON

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### CONSULTANT, SUSTAINABLE LIVESTOCK DEVELOPMENT AND BIODIVERSITY MANAGEMENT

#### ADDRESS IN GERMANY

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#### ADDRESS IN INDIA

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Websites: [ilse-koehler-rollefson.com](http://ilse-koehler-rollefson.com), [www.camelcharisma.com](http://www.camelcharisma.com),  
[www.pastoralpeoples.org](http://www.pastoralpeoples.org)

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#### PROFESSIONAL EXPERTISE

- Ecologically and socially sustainable livestock development, especially in marginal areas (pastoral development)
- Holistic biodiversity management
- Project conceptualization, design, and development
- Gender studies
- Animal genetic resources and community-based breeding management
- Policy Development for livestock and natural resource management
- Bio-enterprise and value chain development for pastoralists
- Indigenous Knowledge (IK), esp. of livestock keepers
- Advocacy for pastoralists and marginal groups
- Animal health services (including ethnoveterinary and paraveterinary approaches)
- GO-NGO Interaction

I have undertaken numerous consultancies, including for World Bank, GTZ/GIZ, Misereor, FAO, ILRI, Natural Resources International (NRI), German Forum for Environment and Development, EED, League for Pastoral Peoples and Endogenous Livestock development (LPP), and others, on a variety of issues relating to participatory livestock development with a special emphasis on breeding, sustainable natural resource management, and gender. As co-proprietor of Camel Charisma Pvt. Ltd, a

social enterprise aimed at adding value to camel raw materials, I have a wealth of practical experience in niche market development for pastoralists.

As co-founder and projects coordinator of the League for Pastoral Peoples and Endogenous Livestock development (LPP), I have developed a large number of successful project proposals funded by Misereor, GTZ, FAO, Rockefeller Foundation, Dutch Biodiversity Fund, Swedbio, The Christensen Fund, Ford Foundation, Winrock, Swiss Development Cooperation, Fondation d'Entreprise Hermès, Swissaid, Bread for the World, and others.

#### EDUCATION/ACADEMIC DEGREES

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|---------|---|
| 1971-77 | Study of veterinary medicine at the Veterinary College Hannover and the Free University in Berlin. State Examination in veterinary medicine. ("Tierärztliches Staatsexamen").   |
| 1979-81 | Doctoral degree at the Institute of Zoology, Veterinary College Hannover. Title of the Dissertation: " <i>On the domestication of the camel</i> ".  |
| 1999    | Habilitation in "History of Veterinary Medicine" at LMU University, Munich.<br>Title of the Thesis: " <i>Camel culture and camel husbandry among the Raika in India: a contribution to the comparative study of human-animal relationships.</i> " |

#### COMMISSIONED PUBLICATIONS

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| 2013 | Camels of Kumbhalgarh. A biodiversity treasure. Commissioned by LPPS for project funded by Ford Foundation   |
| 2010 | Invisible Guardians. The Role of Women in Animal Genetic Resource Management. (in prep., 60+ pages). Author's contract with FAO.                   |
| 2010 | Biocultural Community Protocols for Livestock Keepers. Commissioned by LPP for FAO-supported project.  |
| 2009 | Livestock Keepers. Guardians of biodiversity. FAO Animal Production and Health Paper 167. (69 pages)   |
| 2008 | Background Paper on The Roles of Small-scale Livestock Keepers in the Conservation and Sustainable Management of Animal Genetic Resources for FAO. |

- 2007 Keepers of Genes. Indian Pastoralists and their Livestock Breeds. Lokhit Pashu-Palak Sansthan/LIFE-Network, Sadri (India) 70 pp Funded by FAO.
- 2005 Indigenous Breeds, Local Communities. Documenting Animal Breeds and Breeding from a Community Perspective. LPPS, Sadri (India) 66pp. By LPPS/GTZ/FAO
- 2004 Building an international legal framework on animal genetic resources. Can it help the drylands and food-insecure countries? By Forum Umwelt und Entwicklung/League for Pastoral Peoples
- 2004 Discussion paper: Endogenous versus Globalized: An Alternative Vision of Livestock Development for the Poor. League for Pastoral Peoples/Misereor
- 2004 Livestock Keepers' Rights. Conserving breeds, supporting livelihoods", July, 2004. Brochure in English and German. By League for Pastoral Peoples
- 2004 Farm Animal Genetic Resources. Safeguarding National Assets for Food Security and Trade. Summary Publication about four workshops on animal genetic resources held in the SADC Region. By FAO/GTZ/CTA/SADC
- 2004 Indigenous Knowledge about Animal Breeding, Traditional Communities and the State of the World Report. Information leaflet for participants in the Intergovernmental Technical Working Group on Animal Genetic Resources held at FAO, 31 March-2 April, 2004. By League for Pastoral Peoples
- 2003 (Editor, with J. Wanyama) The Karen Commitment, Proceedings of a Conference of Indigenous Livestock Breeding Communities. By Forum Umwelt und Entwicklung/League for Pastoral Peoples.
- 2003 Indigenous Knowledge about Animal breeding and breeds. Information leaflet in English, German, French, Spanish. By GTZ.
- 2002 Livestock production in the South: sustainable or industrial? Information leaflet. By Forum für Umwelt und Entwicklung, Bonn.
- 2002 (Editor) Local Livestock Breeds for Sustainable Rural Livelihoods. Towards Community-Based Approaches for Animal genetic Resources Conservation. Proceedings of a Conference/Workshop held on 1-4 November, 2000 und Udaipur/Sadri, Rajasthan, India.
- 2000 Management of Animal Genetic Resources at Community-level. By GTZ
- 1993 Die Zukunft der Hirtennomaden: Eine entwicklungspolitische Herausforderung. Broschüre, Liga für Hirtenvölker/BMZ.

## UNIVERSITY RESEARCH POSITIONS

- 1983-84 Research Associate at the Centre for Jordanian Studies, Yarmouk University, Irbid, Jordan.
- 1984-92 Adjunct Professor, Department of Anthropology, San Diego State University, San Diego, USA.
- 4/93-  
2/94 Reintegration Fellowship for Women at the Institute of Zoology, TH Darmstadt. (Prof. Dr. Kinzelbach)
- 2/94-  
3/95 Feodor von Lynen Fellowship of the Alexander v. Humboldt Foundation for research at the J.N.V. University at Jodhpur, India.
- 4/95-  
12/96 "Habilitationstipendium" of the German Research Council (Deutsche Forschungsgemeinschaft)

## TEACHING EXPERIENCE

- 1986 Two lectures on "Animal domestication in the Near East" and on "Camel domestication" at a National Endowment of the Humanities Seminar for college teachers at the University of Pennsylvania, Philadelphia (USA).
- 1989 "Introduction to Archaeozoology". Course for anthropology students at San Diego State University, U.S.A.
- 1990 "The ecology of camel pastoralism in Eastern Sudan". Seminar held at the Department of Anthropology, University of California, Riverside.
- WS  
93/94 "Pastoral nomadism in South Asia". Course held at the Institute of Ethnology, South Asia Institute, Heidelberg University". ("Lehrauftrag")
- WS  
93/94 "Animal domestication". Course held at the Zoology Institute of the Technical University Darmstadt. ("Lehrauftrag")
- SS 94 "The Raikas, a pastoral caste of Western India". Course held at the Institute of Ethnology, South Asia Institute, Heidelberg University: " ("Lehrauftrag")

## RESEARCH GRANTS

- 1980 **DAAD-Dissertation Grant** for research in Jordan and Jerusalem.

- 1982 Postdoctoral fellowship of the **German Oriental Society** (funded by the Stiftung Volkswagenwerk) for 12 months of research on Bedouin animal husbandry in Jordan.
- 1987 Grant of the **Wenner-Gren Foundation for Anthropological Research** for research on the origin of nomadic animal husbandry systems through a study of semi-nomadic Huweitat Bedouins in Jordan.
- 1988 Grant of the **L.S.B. Leakey Foundation** for identification of the small mammal fauna from Ain Ghazal at the British Museum of Natural History, London.
- 1990 Grant of the **A.N. Lindley Foundation** for a pilot study of camel production among the Rashaida in East Sudan.
- 1990-91 "Scholarly Development Fellowship" of the **American Institute of Indian Studies** for research about "Camel husbandry in India: Socioeconomic context and management practices", conducted in affiliation with the National Research Centre on Camel, Bikaner, India.
- 1992 Research Grant of the **National Geographic Society** for a comparative study of camel utilization by Sindhi Muslims und Hindu Raikas in Rajasthan, India.
- 1997 Research Grant of the **Alexander v. Humboldt-Foundation** for a documentation on the Raika caste (in cooperation with Dr. Arun Srivastava, Jodhpur University)

#### ORGANISATION OF CONFERENCES/WORKSHOPS/TRAINING PROGRAMMES

- 2013 Co-organiser, LIFE Network Seminar "Towards Green and Equitable Livestock Development in India. 13th April, 2013 in Hyderabad
- 2012 Organiser of LIFE Network side-event at the COP 11 of the CBD, held in Hyderabad, India
- 2012 Organiser of International "Livestock Futures" Conference held in Bonn (Germany on 6<sup>th</sup>/7<sup>th</sup> September)
- 2007 Organiser of side-event at COP 8 of UNCCD in Madrid on " *The Role of Pastoralists in Conserving Biodiversity*", on 10<sup>th</sup> September.
- 2007 Organiser of side-event " *Everything you always wanted to know about Livestock Keepers' Rights*", during International Conference on Animal Genetic Resources in Interlaken, Switzerland, on 5<sup>th</sup> September.
- 2007 Organiser of side-event at CGRFA 11 (Commission on Genetic Resources for Food and Agriculture) held at FAO in Rome on *Diverse Livestock for Rural Development and Poverty Alleviation*, 14 June

- 2007 Co-organiser (with H.S. Rathore), International Workshop on *Livestock Keepers and the Management of Animal Genetic Resources: Roles, Rights, and Responsibilities*, held in Rajasthan/India from 26-28 February, 2007. Lokhit Pashu-Palak Sansthan and LIFE-Network. Funded by Ford Foundation, HIVOS, WISP.
- 2006 Convenor and Organiser, International Workshop on *Livestock biodiversity, indigenous knowledge and intellectual property rights*, held at the Rockefeller Foundation's Conference Centre in Bellagio (Italy) from 27 March-2 April. Funded by Rockefeller Foundation.
- 2005 Co-organiser (with Evelyn Mathias and H.S. Rathore) Training Course on *People-Centered Livestock Development*, held in Rajasthan/India from 13-19 March, 2005. Lokhit Pashu-Palak Sansthan and League for Pastoral Peoples (Misereor)
- 2004 Co-organiser (with H.S. Rathore) International Conference: "*Saving the Camel and Peoples' Livelihoods: Building a Multi-Stakeholder Platform for the Conservation of the Camel in India*", held in Rajasthan/India. 23-25 November, 2004 (Ford Foundation, Misereor, FAO)
- 2003 Co-organiser (with J. Wanyama) International Meeting of indigenous livestock breeding communities on animal genetic resources, held in Karen (Kenya), 27-30 October. League for Pastoral Peoples and ITDG-EA. (EED, Misereor, CTA)
- 2003 Co-organiser (with H.S. Rathore) Asian level workshop "*Farm animal genetic resources from the perspective of rural communities*", held in Rajasthan/India from 12-16 October with Lokhit Pashu-Palak Sansthan (GTZ, FAO).
- 2003 Course-Designer, Workshop on *Sustainable Animal Management for NGOs*, 25-27 February, 2003 in Dineshpur, Bangladesh. Caritas. (Misereor)
- 2002 Co-organiser (with H.S. Rathore) *All-India Meeting of Pastoralists and Herders Organisations*, 23-24 March. (Swiss Agency for International Development and Winrock International)
- 2002 Co-organiser (with S. Gura) Side-events on animal genetic resources with developing country representatives and pastoralists at the World Food Summit in Rome (June, 2002), and the Session of the Commission on Genetic Resources for Food and Agriculture (CGRFA) at the FAO in October 2002 (German Forum on Environment and Development and League for Pastoral Peoples)
- 2000 Co-organiser (with H.S. Rathore) International Conference + Workshop *Local Livestock Breeds for Sustainable Rural Livelihoods. Towards community-based approaches for animal genetic resource conservation*. Udaipur and Sadri (Rajasthan, India), 1-4 November, 2000 (GTZ and Misereor)
- 1999 Co-organiser (with H.S. Rathore) State-level Workshop *NGOs and Animal*

*Health, with special focus on Ethno-veterinary medicine.* Rajasthan/India, 13-15 March. (Bread for the World)

- 1997 Organiser, *International workshop on traditional camel medicine* to produce a field manual on camel diseases, held in conjunction with the International Conference on Ethnoveterinary Medicine in Pune, India from 4-6 November, 1997 (Misereor and CTA).
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#### PAPERS AT CONFERENCES/WORKSHOPS

- 2012 *Beyond breeds: the key role of locally adapted animal genetic resources for a green livestock economy.* Paper presented at National Conference on Native Livestock Breeds for the Future of Mankind, organized by Vechur Conservation Trust and National Biodiversity Authority on 7.8 July in Hosana Mount, Bharanangnam, Pala, Kottayam, Kerala.
- 2009 *Leveraging the potential of livestock for dryland development: why a paradigm shift is needed.* Keynote paper presented at International Conference on Nurturing Arid Zones for people and the environment: issues and agenda for the 21<sup>st</sup> century held at CAZRI, Jodhpur, November 24-28.
- 2009 *Livestock Keepers' Rights: Origin, meaning and implications.* Invited Paper at National Conference for Animal Husbandry Bureaucrats held in Beijing, November 20th.
- 2009 *Supporting Animal Breeding through a Code of Conduct on Livestock Keepers Rights.* IFOAM Conference on Organic Animal and Plant Breeding held in Santa Fe (New Mexico) from 25-29 August
- 2009 Panelist, Panel discussion on the sustainable management of agricultural biodiversity organized by the Nordic Council of Ministers, Commission Sustainable Development (CSD) at UN-headquarters in New York, 13 May.
- 2009 *Livestock Keepers' Rights.* Paper presented at the Annual Meeting of the Indian Society for Domestic Diversity, held at Karnal, India
- 2008 *Paper on Livestock Keepers' Rights.* 9th Simposio ibero-americano sobre conservacion y utilizacion des recursos zoogeneticos at Mar del Plata (Argentina)
- 2008 *Background and Rationale for Livestock Keepers' Rights* at Workshop on "Rights over Animal Genetic Resources" held at World Trade Institute in Bern
- 2008 *Livestock Farming with Nature.* Poster Paper presented at SBSTTA 13 at FAO in Rome, February.
- 2008 *Protected Areas and Livestock Keepers' Rights.* Poster paper during WGPA (CBD Working Group on Protected Areas) at FAO in Rome, February.

- 2007 Respondent to the lead paper “*Dynamics of livestock production systems, the drivers of change and prospects for animal genetic resources*” during the **Science Forum** held at the **International Technical Conference on Animal Genetic Resources in Interlaken**, Switzerland on 3 September
- 2007 *Local Breeds as Basis for Poverty Alleviation and Rural Development in Developing Countries: The LIFE-Approach*. Invited Paper during the **IFOAM Conference on Marketing of Organic and Regional Values**, held in Schwäbisch-Hall, Germany, 27-28 August.
- 2007 *Reviving Rajasthan’s Camel Husbandry: Experiences from the Field* **International Camel Conference**, held at the College of Veterinary and Animal Science, Rajasthan Agricultural University in Bikaner(India), 16-17 February.
- 2006 *Concentration in the Poultry Sector*, presented at the International Workshop on **The Future of Animal Genetic Resources :Under Corporate Control or in the Hands of Farmers and Pastoralists?**, held in Bonn, Germany, 16 October, organised by League for Pastoral Peoples.
- 2006 *Land Degradation and Desertification: Dimensions, Causes, Solutions, Best Practices*. International School of Journalism, Berlin, on 16 May.
- 2006 *Livestock Keepers’ Rights und Vielfalt der Nutztierassen. In: Kommerzielle Nutzung der Biodiversität: Ist ein Interessensausgleich möglich?* Fachtagung, 23. Mai, 2006, GTZ/Eschborn
- 2006 *Supporting livestock keepers through organizational strengthening: Why services are not enough and we need a “rights-based approach” to livestock development*. Paper presented at **International Conference on Livestock Services**, organised by Chinese Academy of Sciences in Beijing April
- 2005 *Desertifikation – ein aktueller Blick auf die globale Dimension und die Herausforderungen des Problems*. Impulsreferat bei der Tagung „**Desertifikation – Antworten auf die weltweite Zerstörung von Landesressourcen? Zum Stand der Umsetzung und Engagement der Zivilgesellschaft im Rahmen der internationalen Konvention (NCCD)**“, Forum Umwelt und Entwicklung, am 28.4. in Frankfurt.
- 2004 *Participatory Approaches to Using the Camel in Combating Desertification* (with H.S. Rathore) at the **International Conference “Desertification Combat and Food Security: The Added Values of Camel Producers”**, organised by CIRAD (France) and the Institute of Desert Flora and Fauna in Ashkabad, held in Ashkabad (Turkmenistan), 19.-22.4.
- 2004 *Pastoral Nomads and their Stake in an International Treaty on Animal Genetic Resources* (with Jacob Wanyama and Evelyn Mathias) and *The Current Dilemma and Future Perspectives of the Raika in India* (with Hanwant Singh Rathore) at the **International Conference DIALOGUE BETWEEN**



**CULTURES AND CIVILISATIONS: PRESENT STATE AND PERSPECTIVES OF NOMADISM IN A GLOBALIZING WORLD**, 9rganized by the Mongolian National University in Ulaan Baatar from August 9-14.

- 2003 *Trends in livestock development and research: issues at stake for indigenous livestock breeding communities.* (with Isabella Masinde) Paper presented at the **International Meeting of Indigenous Livestock Breeders** held in Karen, Kenya, 27-30 October, 2003.
- 2003 *Indigenous knowledge about animal breeding.* Paper presented to **International Meeting of Indigenous Livestock Breeders** held in Karen, Kenya, 27-30 October, 2003
- 2003 *Pastoralists, protected areas and biodiversity conservation in Western India: a case study of the Kumbhalgarh Sanctuary*(with H.S. Rathore). Paper presented to the Mobile Indigenous Peoples Workshop during the **World Parks Conference** held in Durban, South Africa, 6-13 September 2003
- 2003 Avenues to capitalise on Africa's Farm Animal Genetic Resources: Safeguarding Livestock Keepers Rights and Pursuing Endogenous Development. *Paper presented at the Workshop **Generating Benefits through Sustainable Use and Conservation of Farm-Animal Genetic Resources in the SADC-Region.*** A workshop to explore the legal and regulatory framework held in Maputo, Mozambique, May 20-23, 2003. (GTZ, SADC, FAO)
- 2002 *Significance of pastoral cultures for the sustainable management of livestock biodiversity: A case study of the Raika of Rajasthan* (India) Paper presented at the **GTZ/BMZ Workshop 'Indigenous Peoples and Biodiversity'**, held in Vilm, 7–11 July 2002.
- 2001 **Keynote Speaker**, *Community-Based Management of Animal Genetic Resources: A tool for rural development* at the **International Workshop CBManGR: the State of the Art** held in Mbabane, Swaziland by GTZ, SACCAR, SADC, FAO and UNDP" on ". 7-11 May, 2001.
- 2001 *Community-based management of animal genetic resources* (with A. von Lossau). Paper presented at the Conference on International Agricultural Research for Development (**Deutscher Tropentag**), October 9-11, University of Bonn.
- 2000 *Domestic Animal Diversity, Local Knowledge and Stockholders Rights* ( with Constance McCorkle) presented at the **ASA Conference 2000 at SOAS, London: Participating in Development: Approaches to Indigenous Knowledge**, 2-5 April, 2000
- 2000 *Implementing the Convention on Biodiversity with Respect to Domestic Animal Diversity and Indigenous Institutions for Managing Livestock Genetic Diversity in Rajasthan* (India) (with Hanwant Singh Rathore) at the Workshop on **Experiences in Farmers' Biodiversity Management** held in the Biosphere

Reserve Schorfheide-Chorin, Germany, 16-18 May, 2000.

- 1999 *LPP's Initiative for the Participatory Conservation of Indigenous Livestock Breeds: A Concept Note* (with Juliane Bräunig) at the **Tropentag** on 14-15 October 1999 at the Humboldt University, Berlin
- 1999 Contribution on *Solidarity with poor livestock keepers* in a panel discussion on *Contributions of animal husbandry and fisheries to social security* at **GTZ Eschborner Fachtag, 22 June, 1999.**
- 1999 *Ethics of animal husbandry from a cross-cultural perspective.* Paper presented at the **Conseil Mondial des Eleveurs**, 23-29 August in Lucerne.
- 1995 *The Camel Husbandry Improvement Project in Rajasthan (India): Towards the development of extension services for camel pastoralists.* (with H.S. Rathore and R.R. Dewasi). Paper presented at the **VIII international Conference of Institutions of Tropical Veterinary Medicine**, 25-29 September, Berlin.
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## Consultancies to Projects

- 2008-2011 LPPS: Consultant to project on “*Revitalizing Rajasthan’s camel husbandry for sustainable land use and income generation.*” funded by Ford Foundation (second project phase)
- 2009 FAO: Compilation of background study paper on “The roles of small-scale livestock keepers in animal genetic resource management” (with E. Mathias)
- 2007-2009 EU-Drynet Project: Resource person on pastoralism. Back-stopping for Asian partner NGOs.
- 2006-2007 LPP: Research Support to the project *Strengthening the Movement for Livestock Keepers’ Rights.* Funded by Swedbio and Misereor
- 2006-2007 LPP: Coordination and Communication Support for the LIFE-Network. Funded by HIVOS/Dutch Biodiversity Fund
- 2006-2008 LPPS: Consultant to project on “*Revitalizing Rajasthan’s camel husbandry for sustainable land use and income generation.*” funded by Ford Foundation
- 2006 GTZ: Scientific Resource Person for Preparation of International Conference on *Policies against Hunger V. Food Security and Poultry Production – How to cope with Avian Influenza*, held in Berlin, October,

hosted by German Ministry of Consumer Protection, Nutrition and Agriculture (BMVEL)

- 2006 World Bank: *Consultancy on How Communities Learn from Each Other, Malawi: Knowledge-based Capacity Building for the Integration of Participatory Democratic Process into Community-Local Government Empowerment* (TF 055505)
- 2006 FAO: Contribution of a chapter to the State of the World Report on Animal Genetic Resources on “*The state of past and current exchange of animal genetic resources*” with Evelyn Mathias and Paul Mundy.
- 2006 Consultancy for the Gobi Component of the Project “Conservation and Sustainable Management of Natural Resources” on *Identifying opportunities and challenges for support to camel herder communities in the Gobi in livestock management, animal genetic resources conservation, product development and marketing*. New Zealand Nature Institute
- 2004/2005 SCOPE and League for Pastoral Peoples: *Analysis of Pakistan’s livestock policy and institutional framework from the perspective of pastoralists*. Principal Investigator. Funded by Misereor.
- 2004 ILRI-BMZ: *Improving the Livelihoods of Poor Livestock-keepers in Africa through Community-Based Management of Indigenous Farm Animal Genetic Resources*” (Resource person for participatory characterization of livestock)
- 2004 Lokhit Pashu-Palak Sansthan-Misereor: *Promotion of Sheep Pastoralists in Pali, Rajasthan*. Planning, Monitoring and Evaluation
- 2001-2003 GTZ-Lokhit Pashu-Palak Sansthan: *Sustainable use of indigenous livestock breeds in Asia*. Consultant.
- 2001-2003 Misereor-AFPRO: *NGO-Network on Livestock and Pastoral Development for Western India*. External Advisor and Principal Resource Person.
- 2001 GTZ-India. *Indo-German Changar Eco-development Project* (Evaluation and Strategy development for the livestock component). November 2001
- 2001 NR International Ltd. – LPP programme. *Scoping Study on Pastoralism in India*. April/May, 2001 (in cooperation with Prof. Vijay Sharma, IIM, Ahmadabad)
- 2000-2003 League for Pastoral Peoples: *LIFE (Local Livestock For Empowerment of Rural People)*, an initiative to raise awareness about the role of pastoralists/ farmers and their indigenous knowledge in the conservation of domestic animal diversity and to build an network for people oriented

- approaches towards animal genetic resource conservation. Coordinator.
- 1998 League for Pastoral Peoples-Misereor: Study *NGO-Approaches to Livestock Development in Rajasthan*. March-April, 1998.
- 1997-1999 LPPS-Misereor: *Social and Economic Empowerment of Raika Pastoralists*. A participatory project designed to motivate and empower the target group through milk marketing, revitalization of traditional ethnoveterinary knowledge, women's programme, etc. Scientific Advisor. (Project was recognized as an EXPO 2000 "Around the World" Project).
- 1995-1996 School of Desert Sciences and GTZ-India: *Poverty Alleviation for Raika Pastoralists through camel milk marketing*. Concept Development and Monitoring and Evaluation.
- 1994-1996 School of Desert Sciences and Misereor: *Camel Husbandry Improvement Project ("CHIP")*: Action research project for maintaining camel breeding as viable economic option for Raika pastoralists Planning and scientific guidance.
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#### AWARDS

Marwar Ratna Award 2014: for saving the camel as Rajasthan's heritage (together with Hanwant Singh Rathore)

Yver Rocher Foundation: 1. Prize for Woman Environmentalist, 4 February, 2009 for "Raising awareness about the role of pastoralists in biodiversity conservation"

Distinguished Camel Scientist Award. International Camel Conference, 16-17 February, 2007, College of Veterinary and Agricultural Science, Bikaner, India

Rolex Associate Award for Enterprise 2002 for "Saving the Camel and Raika Heritage in Rajasthan, India".

#### OTHER PROFESSIONAL ACTIVITIES

Member of the guiding group of the Global Agenda of Action for Sustainable Livestock (hosted by Fao)

Member of the core group of the Rain-fed Livestock Network (supported by the Ford Foundation in New-Delhi)

Co-founder, LIFE-Network for community-based management of animal genetic resources

Researcher and script-writer for a film about Biocultural protocols

Researcher and Script-writer for a series of 4 films on livestock issues produced by LPP, LPPS, and Moving Images (funded by HIVOS Oxfam-Novib Biodiversity Fund, Ford Foundation and The Christensen Fund)

Contributor of articles to news media, including Tehelka and The Hindu Sunday Supplement; preparation of numerous press releases.

Author, film script, "Keepers of Genes", produced by Moving Images and League for Pastoral Peoples and Endogenous Livestock Development. Funded by FAO-Netherlands Partnership Programme.

Founder of the League for Pastoral Peoples (now League for Pastoral Peoples and Endogenous Livestock Development), originally an advocacy and support group for pastoralists depending on common property resources, now a resource organization for socially and ecologically sustainable livestock development.

Founding Associate Member of WAMIP, the World Association of Mobile Indigenous Peoples.

## LANGUAGES

German

English (bi-lingual)

Hindi (fluent conversational, basic reading and writing)

French and Spanish (basic)

Urdu (conversational)

## LIST OF PUBLICATIONS

- 1     **1981**         Appendix E. The Animal Remains. Pp. 249-252 in (S. Helms, Ed.) **Jawa. Lost City of the Black Desert**. London: Methuen
  
- 2     **1982**         Contributions about Camelidae and Equidae. Pp. 308-309; 31-318 in (J. Honacki and Koepl, Eds.) **Mammal Species of the World: A Taxonomic and Geographic Review**. Lawrence, Kansas: Allen Press
  
- 3     **1983**         Ethnoarchaeological Survey in Beidha. **Annual of the Department of Antiquities of Jordan 27**:375-383. (with E. Banning)
  
- 4     **1984**         The camel in modern pastoral societies and implications for its process of domestication. Pp. 201-206 in (J. Clutton-Brock and C. Grigson, Eds.) **Animals and Archaeology III**. British Archaeological Reports, International Series 202, Oxford.
  
- 5     **1984**         Excavations at the PPNB village of 'Ain Ghazal (Jordan), 1982. **Mitteilungen der Deutschen Orient-Gesellschaft 116**:139-183 (with G. Rollefson, E. Banning, B. Byrd, Z. Kafafi, D. Petocz, S. Rolston, and L. Villiers)
  
- 6     **1985**         Excavations at the PPNB village of 'Ain Ghazal (Jordan), 1983. **Mitteilungen der Deutschen Orient-Gesellschaft 117**:69-116 (with G. Rollefson, A. Simmonds, M. Donaldson, W. Gillespie, Z. Kafafi, E. Mc Adam and S. Rolston)
  
- 7     **1985**         Contributions about the animals of the Bible. Pp. 30-31; 149-151; 224; 232; 321-322; 334; 350; 382-383; 406; 443; 563-564; 736-737; 846; 854; 937-938; 995; 1002; 1115; 1138 in (P. Achtemayr and R. Boraas, Eds.) **Harper's Bible Dictionary**, Harper & Row, San Francisco
  
- 8     **1986**         Ethnoarchaeological Survey in the Beidha Area, southern Jordan. **Zeitschrift des Deutschen Palästina-Vereins 102**:152-170 (with E. Banning).
  
- 9     **1987**         Ethnoarchaeological research into the origins of nomadic pastoralism. **Annual of the Department of Antiquities of Jordan 31**:535-539.
  
- 10    **1988**         The aftermath of the Levantine Neolithic Revolution in the light of ethnographic and ecological evidence. **Paleorient 14**:87-94.

- 11    **1988**        The Neolithic fauna from 'Ain Ghazal. pp. 423-430 in (A. Garrard and H.G. Gebel, Eds.) **The Prehistory of Jordan**. British Archaeological Reports, International Series 396(I.), Oxford. (with W. Gillespie and M. Metzger)
- 12    **1988**        'Ain Ghazal: A major Neolithic settlement in Central Jordan. **Science** **240**:35-39. (with A. Simmons, G. Rollefson, R. Mandel and Z. Kafafi)
- 13    **1989**        Appendix II. Zoological analysis of camel skeletons. Pp. 142-164 in (R. Smith, Ed.) **Pella of the Decapolis II**.
- 14    **1989**        Small game hunting at Neolithic 'Ain Ghazal. **Anthroquest** **40**:22-23.
- 15    **1989**        The introduction of the camel into Africa, with special reference to Somalia. **Camel Forum** Working Paper No. 24. Somalia Academy of Sciences and Art. Mogadishu. reprint 1993 in (A Hjort af Ornäs, Ed.) **The multi-purpose camel: Interdisciplinary Studies on Pastoral Production**, EPOS, Sweden).
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