

Curriculum Vitae Florian Bemmerlein-Lux

1. **Family name:** Bemmerlein-Lux
2. **First names:** Florian Arno
3. **Date of Birth:** 2.3.1955, Nuremberg
4. **Nationality:** German
5. **Civil status:** married, two children (21 and 23)
6. **Education**

Institution	Degree(s) or Diploma(s) obtained:
Scientific Background:	
University of Beijing 2005	Nomination as Adjunct Professor of the Institute of Environmental Engineering - IEE
Technical University of Karlsruhe/Germany 1997	Training with certificate "Municipal Environmental Planning"
University of Chile, Santiago 1997	Recognition as Graduated Biologist
University of Wisconsin, Madison 1981 - 1982	Fulbright Scholar at the Plant Ecology Laboratory
Friedrich-Alexander-University Erlangen-Nürnberg, Faculty Biology/Chemistry 1977 - 1985	Thesis "Investigations on wall vegetation in North West Spain" Title of Graduated Biologist (Diplom Biologe)
Vocational Training:	
Capacity Works (GTZ)	Course with Certification (Denkmodell) 2010
Landwirtschaftliche Lehranstalten Triesdorf – February March 1977	Practical course in agricultural machinery – certificate
Farm: Rothenhof, Neustadt/Aisch-Bad Windsheim, 03. - 09.1977	Agricultural probationer: focus on plant and seed production

7. Language Skills: (Mark 1 to 5 (best) for competence)

Language	Reading	Speaking	Writing
German	1	1	1
English	1	1	1
Spanish	2	2	3
French	3	3	5
Portuguese	3	3	5

8. Membership of Professional Bodies

- Bayerische Botanische Gesellschaft (Bavarian Botanical Society)
- Regensburger Botanische Gesellschaft (Regensburg Botanical Society)
- Botanischer Verein von Berlin und Brandenburg (Botanical Society of Berlin and Brandenburg)
- Floristisch-soziologische Arbeitsgemeinschaft (Floristic-Sociological Society)
- IAVS (International Association for Vegetation Science)

9. **Other Skills** Computer literacy, MS Office, ZMS Authoring & Content Management System

10. **Present Position** IFANOS concept&planung GBR (Institute of Applied Ecological Studies – concept&planning) in Nuremberg, owner
 INTEGRATION ENVIRONMENT & ENERGY in Gräfenberg, Germany, associated expert

11. **Years with** IFANOS concept & planung: since: 1986

12. Key qualifications:

Organisational Development and landscape ecology specialist

- **Human Resource Development and Integrated Capacity Development:** Capacity Assessment, Training Needs Analysis, development of curricula, internet based Human Recourse Development and Knowledge Management (Platforms like ZMS-Contents Management System); training strategies and concepts in:
 - o Renewable Energy supply / rural electrification
 - o spatial environmental planning; rural municipal planning and administration,

Curriculum Vitae Florian Bemmerlein-Lux

- disaster risk management and reduction,
- environment and environmental management,
- local Government, Rural Development,
- pollution control and related fields with focus on Institutional Development,
- watershed management
- **Project design, monitoring and evaluation, Quality Assessment and Control and Capacity Building Impact Assessment** - Fields: ecosystems and landscape ecology, spatial environmental planning (zoning concepts), watershed development, Disaster Risk Management and Prevention, sustainable development, AGENDA21, Human Resource Development and Capacity Building Programmes;
- **Planning and resource protection, natural resources management** including: Concepts and implementation of regional natural resources protection and development projects including budget planning; biodiversity concepts, management of ecologically sensitive zones and protection schemes; nature conservation habitat linkage; Forest Function Plans; Vegetation Mapping (Germany, Kosovo, Spain, Portugal, Mexico, USA), impact assessment regarding European Flora-Fauna-Habitat-Directive; Disaster Risk Management and Watershed Management; Environmental Impact Assessments and mitigation planning,
- **Training and education as lecturer and project manager:** Institutional Development in Environment (IDE); Methods for Capacity development and Assessment, instruments of environmental planning, management and protection, landscape ecology and integration of environmental issues into spatial planning, city ecology and municipal planning, data analysis and monitoring, environmental impact assessment;
- **Environmental Information Systems and promotion:** Contents Management and Authoring Systems (concept work and training).

13. International experience

Country	Date	Country	Date
Afghanistan	2009 – 2013	Malawi	1999
Brazil	2002	Mexico	1981/82
Chile	1993 – 1998, 2008	Mozambique	2001 - 2009
China	1999 - 2005	Poland	1989
Ghana	2012	South Africa	2003, 2004
India	1999 – 2013	Spain	1985, 1989, 1996, 2002
Indonesia	2008 – 2010	Tajikistan	2011
Jordan	2010	Tanzania	2005
Kazakhstan	2011	Thailand	2006
Kirgizstan	2011	Uzbekistan	2011
Kosovo	2009 - 2012		

14. Professional Experience Record (selected key projects – 1990-2012):

<i>Institutional and Capacity Development</i>	3
<i>Knowledge Management and Management Information Systems</i>	14
<i>Landscape Ecology, Ecological Management</i>	15
<i>Programme and Project Evaluation</i>	20
<i>Environmental Impact Assessment</i>	22
<i>Reviewing activities:</i>	23
<i>Publications:</i>	23
<i>Books and papers:</i>	Fehler! Textmarke nicht definiert.
<i>Communications:</i>	26

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
8.4. – 30.7 / 2013 (2 months)	Afghanistan	ADB / Integration environment & energy JFPR 9128-AFG	Capacity Building advisor	<p>Energy Sector Development Investment Program: Development of Mini-Hydropower Plants in Badakhshan and Bamyan Province:</p> <ul style="list-style-type: none"> • SWOT analysis and training needs analysis to identify capacity building requirements of EA/IA in short and medium-term • Preparation of an On the Job Training (OJT) program, training modules and workshops to address capacity building requirements • Responsible for the capacity building of EA/IA and coordination with team of experts to deliver OJT and training modules • Design training modules and procedures to strengthen existing Community Based Organisations (CBO) in the subproject areas. If such CBOs do not exist in the subproject areas, prepare training modules and procedures for strengthening new CBOs
1.11. – 3.11.2012	Ghana	IRENA / IOREC	Lecturer	<p>Contributing to the International Off-Grid Renewable Energy Conference, 1-2 November 2012, Accra</p> <ul style="list-style-type: none"> • Capacity Needs Assessments for Rural Electrification – lecture and discussion (Side event) • Information: http://www.irena.org/menu/index.aspx?mnu=Subcat&PriMenuID=30&CatID=79&SubcatidID=260
28.8. – 9.11.2012	Germany	GIZ (DKTI Plus)	Lead Author	<p>Thematic and methodical description of GIZ project development services for renewable energies</p> <p>Missing or not fully developed approaches for project development are obstacles for the development of local energy markets. The work included</p> <ul style="list-style-type: none"> • Data collection through GIZ literature and interviews with GIZ programme and project directors • Data analysis and • Final report with a comprehensive overview of experiences of GIZ projects, the analysis of experiences, challenges, shortcomings and processes for renewable energy projects worldwide.

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
1.1. – 30.3.2012	Germany	GIZ, BMU, IRENA	Lead Author	<p>Capacity Development Needs Diagnostics for Renewable Energy - Handbook for Practitioners' and toolbox - Focus on the Wind and Solar Energy Sector - CaDRE-</p> <p>Elaboration (lead-Author): Give practical guidance and provide tools for information collection and analysis.</p> <ul style="list-style-type: none"> • It gives the framework and approach on how to systematically diagnose the Capacity Development Needs of a country's renewable energy sector and assists in the development of <i>Long-Term Capacity Building Strategies</i> for the national and local capacities of the solar and wind sector. • The handbook is developed under the activities of the Clean Energy Ministerial (CEM) Multilateral Working Group on Solar and Wind Technologies (MWGWS) <p>http://www.irena.org/News/Description.aspx?NType=NWS&PriMenuID=16&mnu=Pri&News_ID=215 – and - https://energypedia.info/index.php/Capacity_Needs_Diagnostics_for_Renewable_Energies_%28CaDRE%29</p>
20.5.-30.6.2011	Kirgizstan, Kazakhstan, Uzbekistan Tajikistan	GIZ-Berlin	Senior Advisor	<p>Adaptation to climate change through sustainable resource management and cross border cooperation for disaster risk management in Central Asia – Implementation of Capacity Development Measures</p> <ul style="list-style-type: none"> • Coordination of activities with other GIZ regional Projects • Identification of local cooperation partners form: - Ministry of Environment Protection of Kazakhstan - Ministry of Water Resources and Melioration of Tajikistan - Ministry of Agriculture and Water Resources of Uzbekistan - Ministry of Agriculture and Water Management of Kyrgyzstan, Ministry of Nature Protection of Turkmenistan • Training Needs Analysis • Design of training concepts and implementation strategies

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2008 – 2011 (20 months) 2012 (5 months) 2013 (3 months)	India / Germany	InWent gGmbH / GIZ-ASEM (till 2011) and GIZ-IGEP 2012 – 2013 (3 contracts total of app. 850 000 €)	Project Manager, Senior Advisor, Trainer	<p>Framework of the Environmental Planning and Disaster Risk Management in India:</p> <ol style="list-style-type: none"> 1) Advisory Service and Training industrial Disaster Risk Management (2008-2010) 2) Advisory Service and Training environmental knowledge, Civil Defence and Disaster Risk management (2011-2012) 3) Implementation Activities for Sustainable Urban Development and Capacity Building (2011-1012) <p>Implementation of a Capacity Building Programme on Environmental Planning, Adaptation of Climate Change and Disaster Risk Management for the German Federal Ministry for Economic Cooperation and Development (2010-2012):</p> <ul style="list-style-type: none"> • Concept Development and coordination with GIZ and the Indian stakeholders and guidance • Cooperation with the National Disaster Management Authority - NDMA, GoI, the National Civil Defence College, Nagpur (NCDC), the National Disaster Management Institute, Delhi (NIDM) and the Disaster Management Institute, Bhopal (DMI). • Establishment of a Capacity Development System for On-Site emergency plans, Off-Site Emergency plans , Hazard Identification & Risk Assessment and standardisation of mock drills including train the trainers programmes and networking of service providers • Assist and prepare Training Modules and Programmes for NCDC, NIDM, DMI and sustainable Urban Habitat (18 training modules, now part of the regular training programmes) and a School programme for Civil Defence Youth Corps • 3 Training courses in Germany with the Federal Agency of Technical relief for Master Trainers in Civil Defence, the University of Potsdam for climate change adaptation and for industrial Disaster Risk Management in the Frankfurt area. • Guide, prepare the Knowledge and Training Management Internet Platform for DMI, NCDC, NIDM and ASEM/IGEP Programme with advice, Hands on training in preparation of the sustainability of the platforms (www.igep.in, www.cdDRM-NCDC.org, www.HRDP-iDRM.in) • Advice the new Capacity Building Unit of the planned Indo German Environmental Partnership Programme (IGEP Programme) for concept preparation and tool development • Development and train-the-trainers courses for sustainable urban Development and adaptation to Climate change in the field of Urban Sanitation and urban solid waste Management (2 courses for Municipal officers and ToT material) • Spatial environmental planning for industrial zones and areas with special reference to Disaster Risk management and prevention issues (in Andhra Pradesh and Gujarat)

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
1.3.2009 - 31.10.2011 (6 Months)	Afghanistan / Germany	GTZ - Renewable Energy Supply for Rural Areas (ESRA) (120 000 €)	Senior Advisor, Trainer	<p>Capacity Assessment and Development in the sub-sector of rural electrification through renewable energy: Focus: Hydropower, Photovoltaic Systems, Wind and Biomass</p> <ul style="list-style-type: none"> • Identification of the capacity gaps and the definition of thereto relating capacity development (CD) objectives for the levels: Individual - Organizational – Network – System • Enable subsector authorities and funding agencies to decide on strategy for rural electrification through renewable energies so that it is commensurate with the implementation capacity in the sector; • Establish more firm collaboration modalities between several actors in the subsector, based on a joint understanding of capacity and constraints; • Enable authorities to approach other important stakeholders (e.g. Ministry of Finance) to propose remedies for institutional constraints that cannot be solved at subsector level; • Design of an implementation oriented Capacity Development Plan and the institutional development of the Directorate of Renewable Energy (MEW, KABUL) • Outline and guidance for an Awareness Campaign for Rural Electrification covering the components “presence” – “sensitisation”, “orientation” and “motivation”) • Preparation of 5 dissemination and development workshops in the area of Capacity Development • Support in the identification and assessment of possible training providers incl. writing of TOR for different measures (for local and international training providers). • Support ESRA in designing consistent indicators, outputs and operation plans
2009 (1 month)	Germany/India	KfW / NABARD	Project Manager	<p>Visit-cum Exposure Tour on Rural Development and Natural Resources Management - Organisational and Financing Features Organisation and implementation of the tour for the senior management level of NABARD (Indian Rural Development Bank) to Germany focussing on the following topics:</p> <ul style="list-style-type: none"> • The future German Development Cooperation (GDC) would focus on NRM sector and climate change • The role of rural finance in the future focus on NRM and climate change (particularly on rural cooperatives and rural financial institutions) • Experiences of KfW and other GDC institutions to provide input for the question how NABARD will deal with this challenge in the future

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2007 (3 months) 2008 (4 months) 2009 (4 months) 2010 (3 months)	India/ Germany	InWEnt in cooperation with GTZ-ASEM	Project Manager, Senior Advisor, Trainer	<p>Capacity Building in industrial Disaster Risk Management Implementation of a Capacity Building Programme on industrial Disaster Risk Management for the German Federal Ministry for Economic Cooperation and Development (2008-2010):</p> <ul style="list-style-type: none"> • Assessment in India with the Disaster Management Institute Bhopal, ASEM – Advisory Service in Environmental Management – Ministry of Environment and Forests, Government of Madhya Pradesh • Concept Development and coordination with InWEnt and the Indian stakeholders and guidance • Cooperation with the National Disaster Management Authority - NDMA, GoI • Establishment of a Capacity Development System for On-Site emergency plans, Off-Site Emergency plans, Hazard Identification & Risk Assessment and standardisation of mock drills including train the trainers programmes and networking of service providers • Prepare and guide a study tour to Europe for Disaster Risk Management (2 weeks)
2008 (3 weeks)	India/Germany	GTZ - PRI – Capacity Building for Panchayati Raj Institution in Himachal Pradesh	Project Manager, Senior Advisor, Trainer	<p>Local Government & Decentralised Rural Drinking Water Supply in Germany (Study tour “Visit cum Exposure”) Study tour of Indian Senior level to Germany for</p> <ul style="list-style-type: none"> • Module 1: German public administrative system and the role of local self-government • Module 2: Local economic development in rural areas – framework planning, development, investment, conflict resolution and viability • Module 3: Drinking water services – from catchments to operation and maintenance • Module 4: Capacity development and cooperation
Oct. 2007 to March 2008 (2 months)	India – Andhra Pradesh	GTZ (ASEM)	Project Manager, Senior Advisor, Trainer	<p>Eco-Industrial Estate Planning and Management Training Package Under the ASEM pilot project on developing Eco Industrial Parks in Andhra Pradesh:</p> <ul style="list-style-type: none"> • Plan, prepare and conduct 5 (Train the Trainers) skills training courses and a round table on Eco Industrial Estate Management and Planning for the Andhra Pradesh Industrial Infrastructure Corporation (APIIC) and other stakeholders • Facilitate the Certificate Course sequence of the Indo German Institute of Advanced Training (IGIAT) in their cooperation with APIIC • Supervise and Advise the planning and conduction of Eco Industrial Estate Management and Planning courses implemented by local training institutions

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2006 (1 month), 2007 (1 month)	India	KfW (with RODECO GmbH) and the National Bank for Agriculture and Rural Development, India	Capacity Building Expert for Watershed and Rural Development	<p>Comprehensive Capacity Development Strategy for all Stakeholders of “The Indo-German Watershed Development Programme - Andhra Pradesh” Capacity Building Needs Assessment and development of a Master Plan for a Capacity Building System for all the stakeholders. Results:</p> <ul style="list-style-type: none"> • A revision and streamlining of the project cycle with regard to the timing and logical sequence of the implementation steps; • A streamlining of the capacity building strategy; • A reduction and priority setting of the capacity building inputs in the context of the capacity building strategy; • The development of implementation strategies for the key outputs of the capacity building strategy/project cycle; • A precision of the capacity building strategy with regard to planning instruments, notably land-use planning and feasibility study-compilation.
2005 (4 months), 2006 (5 months), 2007 (5 months) 2008 (2 months) 2011/12 (2 months)	India	InWent (and cooperation with ASEM India and the Ministry of Environment and Forests) (since Jan 2012 GIZ-IGEP)	Project Manager, Senior Advisor, Trainer	<p>Human Resource Development (HRDP) for Environment – Training Assistance of and concept development for the “Environmental Training Unit - TMU” of the Ministry of Environment and Forests: Deliverables:</p> <ul style="list-style-type: none"> • Development of Training Management tools with TMU • Operation and training action planning in 17 fields (Waste, EcoCities, Urban Planning, Air Monitoring, Public Private Partnerships, and Natural Resource Management etc.) • Guide and control the Training Needs Analysis and HRDP Strategy development for the ASEM Human Resource Development • Dissemination planning, Web Site, and Newsletter development • Organisation, facilitation and training for the www.hrdp-net.in Content Management System
2005 (1 month) 2006 (1 month) 2007 (3 weeks) 2008 (2 weeks)	India / Andhra Pradesh	for InWent in cooperation with GTZ-ASEM	Project Manager, Senior Advisor	<p>“Industrial Development Area Improvement Training Series”, Andhra Pradesh, India. The Andhra Pradesh Industrial Infrastructure Corporation Ltd. (APIIC), the Andhra Pradesh Pollution Control Board (APPCB) and GTZ-ASEM started with the development of pilot Eco Industrial Estates. A newly coming industrial estate and two exiting industrial development areas (IDA Nacharam and IDA Mallapur) are covered:</p> <ul style="list-style-type: none"> • Training Needs Assessment for individual industries and their estate • Design of a Capacity Building programme for the entrepreneurs and their organisations to transform the IDAs into Eco Industrial Estates and to reduce pollution loads and to increase quality and efficiency of production • Joint implementation of the tailor made Training Series in cooperation with the “National Productivity Council – NPC and EPTRI, Hyderabad.

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2005/2006 (2 months)	India / Himachal Pradesh	RODECO (for GTZ-WASH Project)	Project Manager, Trainer	<p>Design of a Capacity Development and Training system Indo-German Bilateral Project Strengthening Local Administration for Rural Water Supply and Minor Irrigation in Himachal Pradesh</p> <ul style="list-style-type: none"> • Support of a “Communication and Capacity Development Unit” of the “Department of Irrigation and Public Health – Himachal Pradesh – India) in designing, planning and presenting a State Strategy and concept or Institutional Development and Behavioural Change in the context of ‘SWAJALDAHRA/Total Sanitation Campaign’. • Enable and empower local resource governance of Panchayat Raj (rural municipalities) to manage their own water resources and the Operation & Maintenance of the drinking water supply. • The awareness and training programmes designed included: Training Need Analysis, identification and selection of Training Providers, design of an appropriate organisational structure and mechanisms for monitoring, quality control and Training Impact Evaluation
2005 - 3 weeks 2004 – 3 weeks	China/ Europe	EU - Environmental Cooperation Programme (for INTEGRATION E&E)	Project Manager, Senior Advisor, Trainer	<p>Ecological Stewardship – Effects of Globalisation - Sustainable Development in EU Countries - Visit cum Exposure in Europe</p> <ul style="list-style-type: none"> • Upgrade the knowledge about Ecological Stewardship and the different approaches of ecological compensation measures and environmental services. • Provide an insight into practical implementation of regulations and programmes for land management (incl. agricultural production systems), policy formulation, economic and budgetary considerations and calculations, rural development and land (landscape) management practices in cities, lowlands, mountain and coastal areas <p>Institutional Capacity Building - Sustainable Development in EU Countries</p> <ul style="list-style-type: none"> ▪ Upgrade the knowledge of DISC (Development of Institutions for a Sustainable China) about training management and add new experience of important actors in the “Training and Capacity Building Landscape” in Europe: learn about their approaches, methods, contents and networks.

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2004 (2 short term missions – 1 week each), 2005	Mozambique, Germany, Tanzania, SA	CDG/InWEnt for the German Federal Ministry of Foreign Affairs, the National Institute for Disaster Management Mozambique and UNDP	Senior Advisor	<p>Strengthening the National Disaster Management Institute “Disaster Management and Prevention”</p> <ul style="list-style-type: none"> • Develop capacity building measures and courses for information generation, information flow and communication concepts in close cooperation with the local partner and representatives of Disaster Management Units of SADC countries (these concepts added to the establishment of a disaster management information system). • Indicators and Capacity Development Impact Evaluation were included for the Institutional Capacity Building Process. • Revision of a Training Manual on Information Flow and Workshop in Tanzania for Disaster Management Units of SADC countries (April 2005)
2004 (3 months), 2005 (2 months)	India	InWEnt (and cooperation with ASEM India)	Project Manager, Senior Advisor, Trainer	<p>Human Resource Development (HRDP) for the Central and State Pollution Control Boards</p> <p>Assistance of and concept development for the newly established “Environmental Training Unit - ETU” of the Central Pollution Control Board in the field of Capacity Building CPCB/Sate Boards. The ETU will have the responsibility for the Human Resource Development of all the Boards in India.</p> <ul style="list-style-type: none"> • Guide and control the Training Needs Analysis and HRDP Strategy development for the CPCBs Capacity Development • Guide and assist the “Standardisation” of course modules (pilot project includes the tendering Indian Training Institutions) • Organise, guide and control the planning and implementation of three 3-weeks “Coaching Courses” in Industrial Estate Planning, Waste Management and Pollution Monitoring as pilot courses (pilot project includes the tendering Indian Training Institutions)

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
September/October 2003 – 4 weeks February/March 2004 – 3 weeks	India	GTZ (for World Bank and Agricultural Ministry of Karnataka)	Senior Advisor (in cooperation with A. Kumar, consultant, Mumbai)	<p>Watershed Management – Rural Development Training Assistance Programme - Integrated Watershed Development Training for the “Sujala Watershed Project”, Bangalore:</p> <ul style="list-style-type: none"> • Training Needs Assessment improvement for skills and awareness building (for interventions in social mobilisation, gender issues, management, agriculture, forestry and cattle) • Review of existing training activities and management and the involved institutions and training providers to better integrate their activities, Identification of new training partners • Integration of the existing project implementation activities (in five districts of Karnataka, covering 77 Sub Watersheds comprising of 1270 villages in a 5.5 year period from 2001-02 to 2006-07) and support to develop an efficient training organisation and coordination structure • Development of instruments for the quality assurance and control (monitoring, feedback and follow up).
2003 – 2005 (7 months)	China	EU (for INTEGRATION E&E)	Senior Advisor	<p>Institutional Capacity Building – Sustainable Development Under the EU-China Environmental Management Cooperation Programme EMCP - establishment of a “Development of Institutions for a Sustainable China” DISC Centre (focus on watershed management, CDM and globalisation). Deliverables:</p> <ul style="list-style-type: none"> • Development of a train the trainers course on “Training Course Construction and Management”, implement the course and train the trainers (incl. 2 Training of Trainers workshops) – published in Social Science Documentation Publishing House (Chinese) in 2004 • Training Needs Assessment for regional and national Human Resource development Programmes“ • Preparation of material for the development of a strategy and of tools for a Quality Management System (in the field of training) • Initialisation of DISC working group in selected topics and methods of evaluation and planning (Ecological Risk Assessment, Strategic Water Framework Planning, Evaluation method and Analytical Tools, proposal writing). • “Training Management Handbook” for local AGENDA 21 Initiatives and a “Guide for Professional Exchange – China - Europe”

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
2001-2008 (15 short term missions (2 weeks each))	Mozambique	InWEnt for the German Federal Ministry of Foreign Affairs, the National Institute for Disaster Management Mozambique and UNDP (partly for INTEGRATION E&E)	Senior Advisor	<p>Disaster Management and Prevention Training Need Assessment and Human Resource Development in the field of Disaster Management and Prevention:</p> <ul style="list-style-type: none"> • Strengthening of Mozambique's National Disaster Management Policy and support the integration of an Early Warning System with long term planning, response, preparedness and mitigation • Develop a Human Resource Development Programme and Strategy (HRDP) and Training Measure Network for short and long term training and capacity building programmes. • Support in definition of roles and responsibilities of governmental and non-governmental bodies in the planning process of emergency response and disaster preparedness at national, provincial, district and local levels • Prepare and moderate a National Planning Workshop in 2001 as a first step for the implementation of the 2.4 Million EUR Programme (2001-2005 and 2006-2008) with a strong focus on regionalisation to SADC countries (cross border disaster management).
1999 (2 weeks)	Malawi	SANTREN (Southern African Network for Training and Research on the Environment)/CDG (InWEnt)	Project Manager, Trainer	<p>Institutional Networking and Training</p> <ul style="list-style-type: none"> • Training on 'environmental training course development' for the "Southern African Network for Training and Research on the Environment" (SANTREN), • Information brochure for the Southern African Network for Training and Research on the Environment (SANTREN) for SADC countries - concept, design, realisation
1996 – 2003	India and Germany	Ministry of Environment and Forests, India, CDG (InWEnt) GTZ and World Bank	Project Manager, Senior Advisor, Trainer	<p>HRDP in Spatial Environmental Planning</p> <ul style="list-style-type: none"> • 10 training courses (3 to 6 weeks each): "Visit cum Exposure" and "Training-cum-Visit" in (Spatial) Environmental Planning in Germany. • Training of more than 150 senior officers of the Indian environmental and planning Authorities, Municipal and Industrial Cooperation's and Indian Training Institutions: Spatial and regional planning from municipal up to federal level planning and the involvement of municipalities in, water management, urban renewal, industrial siting, eco-industrial sites and Cleaner Production. • Development of the introduction of environmental considerations into all levels of spatial planning and decision making processes) • Outstanding effect: the inclusion of Human Resource Development in Spatial Environmental Planning into the national 10th 5-year plan of India and the start of the nationwide "Eco-City" programme.

Curriculum Vitae Florian Bemmerlein-Lux

Institutional and Capacity Development				
Date	Location	Company	Position	Description
October 2000 till Dec. 2007	India	GTZ and Indo-German bilateral Project, InWEnt, "CPCB/SPCBs Environmental Quality Assessment and Control"	Senior Advisor, Trainer	<p>Human Resource Development in Spatial Environmental Planning Design of the training strategy and programme for the "Human Resource Development in the field of Spatial Environmental Planning – targeting towards achievement of sustainable environmentally balanced development in India". Tasks:</p> <ul style="list-style-type: none"> • Summary analysis of the existing training measures undertaken under the Zoning Atlas Programme, • Training needs assessment, • Develop a coherent structure of the suggested Human Resource Development Programme and an appropriate organisational structure for management and execution of the programme, • Make an inventory of the prominent training institutions in environmental education and training in India and their training offers, • Detailing of the plan for the period till 2004 down to individual HRDP measures, organise a planning workshop and present the results
1999/2001 20 Weeks	Dongying, P.R. China	INTEGRATION environment & energy for GTZ	Senior Advisor, Trainer	<p>Promotion in Environment – Cleaner Production and Monitoring</p> <ul style="list-style-type: none"> • Strengthening of the Environmental Authority of the City of Dongying, in the Field of Environmental Monitoring: • Preparation, design and execution of 9 Workshops and Seminars for the staff of the Environmental Protection Bureau, the Members of the Peoples Congress Commission of Environment and the Environmental Managers of local Industry. • Initiation and supervision of Information Tables, design and supervision of 3 TV films on environmental protection • Teach presentation skills and introduction into the presentation of environmental impact of pollutants. • Final evaluation and assessment of the effects and sustainability of the project.

Curriculum Vitae Florian Bemmerlein-Lux

Knowledge Management and Management Information Systems				
Date	Location	Company	Position	Description
2007 (1 months) 2008 (2 months) 2009 (2 months) 2010 (2 months) 2011 (3 months) 2012 (2 months) 2013 (1 month)	India/ Germany	InWEnt in cooperation with GTZ-ASEM, and SNTL publishing GIZ (in 2011/13)	Senior Advisor, Trainer	<p>Knowledge Base and Management Information System for industrial Disaster Risk Management</p> <ul style="list-style-type: none"> • Design, implementation and institutional guidance of a Knowledge and Training Management Platforms (www.HRDp-net.in; www.HRDp-iDRM.in; www.cdDRM-NCDC.org, www.ekDRM.net) incl. dissemination seminars to State Chief Inspectors of Factories and Boilers, Ministry of Labour and Administrative Training Institutions in 12 Indian States and advisory service of institutional business workflows for the new systems. • Conduction and follow up of intensive training courses for Knowledge an WEB Platform management (2 weeks per year) for content managers of the Disaster Management Institute, Bhopal, the National Institute for Disaster Management • Introduction of a Management Information System: • Design of a blended learning e-learning with presence phases for the National Institute of Disaster Management on the use of statistics in the transportation of hazardous chemicals.
2005 – 2006 (3 weeks) 2008 (2 weeks) 2009 (5 weeks) 2010 (3 weeks)	Germany - Indonesia	InWEnt (and S. Hoffmann – IT advisor)	Senior Advisor, Trainer	<p>Human Resource Development of Key Persons – Establishment of a Capacity Building Unit in Indonesia for Disaster Risk Management and Mitigation - German Indonesia Tsunami Early Warning System GI-TEWS</p> <ul style="list-style-type: none"> • Advisory service for the development of a Capacity Development and Human Resource Development strategy and training programme. Design of a Visit cum Exposure tour for RISTEK senior officers. Planning Workshop preparation and guidance (Nuremberg/Berlin). 6 Hands on training courses for members the Capacity Building Unit and BNPB on the use of an internet based Management Platform (http://id.HRDp-riskmanagement.org/). • Intensive training and guidance of INA-TEWS representatives as content managers and editors for the PIRBA-web platform. Support of the institutional development of members of the Capacity Building Unit.

Curriculum Vitae Florian Bemmerlein-Lux

Landscape Ecology, Ecological Management

Date	Location	Company	Position	Description
December 2010 – December 2012 (193 days, 3 contracts)	Pristine, Prizren and Dragash, Kosovo	UNDP (100 500 €)	Project Manager, Senior Advisor	<p>Advisory service for the formulation of an integrated strategy and pilot activities to create a sustainable framework for Dragash municipality and the expansion of a National Park in the Sharr Mountains</p> <ul style="list-style-type: none"> • Biodiversity assessment (forests, open land, fauna, flora, vegetation) • Forest function plans and management (timber production, coppice forest, private use) • Concepts and guidelines on: Evaluation of biodiversity situation in the region incl. Sharr Mountains, Recommendations for conservation of this area within existing National Park borders and/or proclamation of protected zones, • Sustainability Atlas for the Municipal Development Plan (concept, collection, supervising map production (45 thematic maps), <ul style="list-style-type: none"> ▪ Preparation of the required ‘Strategic Environmental Assessment’ for the Municipal Development Plan • Guidelines and specific measures for necessary field examinations in Dragash area within precise evaluation of floristic, faunistic, ecosystem diversity and threats) • Capacity development of the Municipality (strategy, training needs assessment, implementation, quality control, financing mechanisms, office management) • Advisory service for the Municipal Management Plan Dragash – Capacity Building Programmes for UNDP and Dragash Municipality. • Landscape Plan for the “Shkugza Park” - Municipality of Gjakova and Institute of Spatial Planning, Ministry of Environment and Spatial Planning
2001 – 2012 (total of 12 months) 1970/71, (total of 3 months)	Nuremberg, Bavaria	Airport of Nuremberg Security and Environmental Department (approx. 300 000€)	Project Manager, Senior Advisor	<p>Nature Protection: Monitoring of Grassland Management and Flight Safety (birds)</p> <ul style="list-style-type: none"> • 1970/71: Expert report on birds with respect to flight safety. • 2001-2012: Grassland management plans and monitoring to harmonise flight safety and nature conservation requirements. Advisory service for management and Monitoring of the whole airfield, control of the effectiveness of the change of management and evaluation of the contribution to the Airports “Eco-Account” and environmental stewardship.

Curriculum Vitae Florian Bemmerlein-Lux

Landscape Ecology, Ecological Management

Date	Location	Company	Position	Description
1991-1996 (2 months) 2008 (August/September) (1 month)	Nuremberg, Bavaria	Landschaftspflegeverband Nürnberg e.V. German Rail (DB)	Project Manager, Senior Advisor	<p>Original Inhabitants of Bavaria - „A threatened Star“– conservation of the last remaining population of <i>Astragalus arenarius</i> west of the Elbe River.</p> <ul style="list-style-type: none"> • Installation and documentation of monitoring areas concerning the "Transplantation of <i>Astragalus arenarius</i>" within the urban district of Nuremberg • Reconstruction of the natural history of the site • Assessment and inventory incl. phenology and growth rates • Guidance and advice for the reproduction and spread of plants to secondary habitats
1986 - 2008	Germany	Various Gov. Agencies	Project Manager, Senior Advisor	<p>More than 30 projects for Nature protection agencies, Municipalities in:</p> <ul style="list-style-type: none"> • SAP – special nature conservancy studies • Habitat Mapping Concept Development, • Regional Planning, • Vegetation Mapping for Impact Studies, • Management Plan for Nature Reserve, • Planning of Compensation Measures • Eco-Account and Advisory Service for Compensation and Mitigation
2004 (3 months), 2005 (3 months)	China	EU - Environmental Cooperation Programme (for INTEGRATION E&E)	Senior Advisor	<p>Regional Planning: Sustainability Atlas / Landscape Ecology Assessment</p> <ul style="list-style-type: none"> • Review European practice in environmental and SD atlas preparation including methodologies employed, result display and use and employment of such tools for policy making, planning and decision making; • Design an approach and a method for the SD-atlas • Identify the data for the spatial data requirements and advise on mapping and geographical result representation • Advise the study team in appropriate information dissemination

Curriculum Vitae Florian Bemmerlein-Lux

Landscape Ecology, Ecological Management

Date	Location	Company	Position	Description
2000/2002 (4 months) 1998-1999 (4 months) 1995/96 (2 months) 1995 (3 weeks) 1991-1995 (4 months)	Germany	Bavarian State Ministry for Regional Development and Environmental Affairs – State Environmental Agency	Project Manager, Senior Advisor	Nature Protection: Inventory and District Habitat Mapping <ul style="list-style-type: none"> Habitat mapping in the urban areas: Würzburg (vegetation, fauna and aerial photography interpretation of the vegetation and land utilisation types, promotion of the results) Habitat mapping in the urban areas: Sulzbach-Rosenberg (vegetation, fauna and aerial photography interpretation of the vegetation and land utilisation types) Analysis and Evaluation of Programs in Nature Protection for Wetlands in Bavaria; Statistical and Multivariate Tests of Vegetation and soil Parameters to Evaluate the Efficiency of Mowing Regimes Ecological Inventory, Evaluation and Survey of “Preferential Areas” for Sand-Mining; Contribution to the Preparation of the Regional Plan of Middle Franconia Bio-monitoring programme: sampling of permanent plots on the Hainberg - Nuremberg (dry grassland) and Installation and documentation of permanent survey areas on sandy-dry -grasslands and within lichen-covered pine woods in Middle Franconia
1996 (1 month)	Spain	Government of Navarra, Spain, for and with the Lab. de Botánica, Dept. de Biología Vegetal y Ecología - Universidad del País Vasco	Project Manager, Senior Advisor	Nature Protection: Concept Development <ul style="list-style-type: none"> Scientific Consultant of the "Proyecto de evaluación y propuestas de gestión para la conservación de los bosques de Urbasa y Andina".
1988/90 (2 months) 2002-2005 (2 months) 1998-1999 (5 months)	Germany	City of Nuremberg, German Association of Landscape Management /Bund Naturschutz	Project Manager, Senior Advisor	Nature Protection: Dry Grassland and Forest Management and Habitat Linkage Concept <ul style="list-style-type: none"> Inventory of potential and existing grasslands for the development of management strategies and concepts for a Municipal Habitat Linkage System for dry grasslands. Management Plan and concept for dry grassland, Conservation and Rehabilitation, in the City of Nuremberg. Concept development of a Habitat Linkage System for dry grasslands in Northern Bavaria (the concept and calculation and the project which includes 12 district Governments and 3 NGO's is implemented with a total amount of 2.5 Million EUR)

Curriculum Vitae Florian Bemmerlein-Lux

Landscape Ecology, Ecological Management

Date	Location	Company	Position	Description
1997/98 (3 months)	Santiago de Chile	Municipality of La Pintana	Project Manager, Trainer	<p>Concept Development and Implementation in City Planning</p> <ul style="list-style-type: none"> Plan seccional: Estudio de Uso de Suelo Antumapu - La Platina" (Land-Use Plan for the Municipality of La Pintana en Antumapu - La Platina (Santiago de Chile) with integrated EIA. Development of a "Functional Assessment Model for Spatial Planning" Main focus was the development of appropriate tools for the Municipality and local planners to integrate environmental issues in their planning and decision making processes. One effect of the plan was the shifting of the Zoological Garden of Santiago and the effective upgrading of the Municipality.
1993/94 (18 months)	Santiago de Chile	Carl Duisberg Gesellschaft e.V. (CDG) and Ministry for Technical Cooperation and Development (BMZ) and MIDEPLAN (Ministerio de Planificación y Cooperación – Chile)	Project Manager, Trainer	<p>Institutional Development in Environmental Planning and Management</p> <ul style="list-style-type: none"> "Instruments of government environmental planning and control": Design and implement a long term capacity building programme for Chilean administrators of the Ministry of Planning and Co-operation (MIDEPLAN) (a 5 and a 6 months capacity building programme was designed, organised and executed). Target Group: 30 Chilean officers form MIDEPLAN. All aspects of environmental Planning (Pollution control, EIA, Spatial Planning, Regional Planning) were trained and planning projects for 4 Regions in Chile were elaborated. Field visits and interaction with all relevant Chilean Authorities at national and regional level were the first step of the implementation of the elaborated projects. Two of the projects elaborated led to GTZ projects (Metropolitan Region Regional Planning and a Waste Management Project in the 10th region) 3 Specialist courses on the "Evaluation of Environmental Impact Assessments and their Integration into Spatial Planning" Training for government officials to strengthen their capacities in the evaluation and revision of EIA studies according to the new Chilean Legislation.

Curriculum Vitae Florian Bemmerlein-Lux

Landscape Ecology, Ecological Management

Date	Location	Company	Position	Description
1991 (12 months)	Bavaria	Regional Government of Middle Franconia (80 000 €)	Project Manager, Senior Advisor	<ul style="list-style-type: none"> • Installation and documentation of permanent survey areas in coppice forests timber utilisation (Natural Protection Area 500.27 "Gräfhholz und Dachsberge") • Forest management systems for coppice forest area for the rural community of Ergersheim • Biodiversity Assessment (fauna, flora, vegetation) and succession processes • Advisory service for the Dept. of Forestry (Middle Franconia) – Management plans of forest and biodiversity, Department of Nature conservation of the government of Middle Franconia (Bavaria), the Municipality of Ergersheim – Association of Forest owners and users • Management Plan of the nature protection area NSG 500.10 "Rammelsee und Kleiner Schimmelsteig" – Conservation and improvement of sustainable, traditional forestry and Management Plan of the nature protection area NSG 500.27 "Gräfhholz und Dachsberge"

Curriculum Vitae Florian Bemmerlein-Lux

Programme and Project Evaluation				
Date	Location	Company	Position	Description
2005 to 2013 (1 – 1.5 month a year)	Belgium, Germany	Agriconsulting Europe S.A./Integration E&E 2013: EPRD Office for Economic Policy and Regional Development Ltd.	Assessor	Evaluation of proposals Budget Lines: <ul style="list-style-type: none"> • Switch Asia • ASIA Pro ECO post tsunami • Environment and Forest Budget line • ASIA Pro ECO II • NGO (international, Africa and Asia)
May – July 2010 (6 weeks)	Jordan	GTZ (30 000 €)	Senior Advisor	Assessment of Impacts of the German-Jordanian Programme Management of Water Resources <ul style="list-style-type: none"> • Analysis, illustration and demonstration of the complexity of the water sector in Jordan and the work of the German Technical Cooperation as well showing the impacts of the supported interventions, initiatives and activities. • Report in English which renders to an informed layman's audience the complexity of the water sector in Jordan, the relevance and the impact of the WP's interventions using a mix of text, graphs, charts, photographs and life stories.
April 2010 (1,5 weeks)	Indonesia	InWEnt	Senior Advisor	Project Evaluation: GITEWS Capacity Building Component (2007-2010) in close cooperation with the "Capacity Building Unit" for Disaster Risk Management – Ministry of Science (RISTEK) – Evaluation report and Lessons learned.
Feb. - March Nov. – Dec.2008 (4 weeks)	Mozambique	InWEnt gGmbH – Office of Foreign Affairs - Germany	Senior Advisor	Project Evaluation: Disaster Management assessment of the programme (2006 to 2008) in close cooperation with the National Disaster Management Institute (INGC – Department of Human resources) to evaluate the effects of all kinds of Capacity Building Measures. - Midterm and final evaluation.
22nd – April - 2nd June 2006	Thailand Bangkok	CECOFORMA SA -	Moderator	ASIA PRO ECO NETWORKING MEETING Preparation support and moderation of the Networking Workshop for representatives of ASIA Pro ECO projects (old and newly started). Work Group guidance and report to EC

Curriculum Vitae Florian Bemmerlein-Lux

Programme and Project Evaluation				
Date	Location	Company	Position	Description
2005 (July, 3 weeks)	India	GTZ	Senior Advisor	<p>Capacity Building in Watershed Management: Joint Project Evaluation and CB Strategy Development IGBP-CB&T, Indo-German Bilateral Project Capacity Building and Training, Maharashtra State, India. The Joint Evaluation Mission has three major tasks:</p> <ul style="list-style-type: none"> • Review and evaluate the present phase • Assess the impacts so far worth to be spread for replication at national level. • Suggest how further impacts can be generated to reach sustainability within the network of the Maharashtra based Training Institutes • Recommend measures to be integrated into an Indo-German Program-Approach.
2005 (April 2 weeks, December 1 weeks)	Mozambique	InWEnt –gGmbH (Capacity Building International)	Senior Advisor	<p>Training Impact Evaluation: Disaster Management Development of a training impact evaluation scheme in close cooperation with the National Disaster Management Institute (INGC – Department of Human resources) to evaluate the effects of all kinds of Capacity Building Measures. Final Impact evaluation of the HRDP (2001-2005)</p>
2003 (December), 2004 (April – June, August, October - November)	China	EU (for INTEGRATION E&E)	Senior Advisor	<p>Training Impact Evaluation: Sustainable Development Under the EU-China Environmental Management Cooperation Programme EMCP and supporting ACCA 21 the staff of the “Development of Institutions for a Sustainable China - DISC Centre” is trained (Train the Trainers) in Quality Assessment and Control and Training Impact Evaluation. The training and the provided guidelines enable the training managers of DISC to supervise ongoing Institutional Capacity Building measures and professional exchange activities in 8 pilot cities in China. The projects focus on local Agenda 21 initiatives in the cities in different sectors (city planning, city management, Air and Water pollution).</p>

Curriculum Vitae Florian Bemmerlein-Lux

Programme and Project Evaluation				
Date	Location	Company	Position	Description
2001 – 2005 (8 months)	Germany/India	CDG (InWEnt) and Ministry of Environment and Forests India / World Bank	Contract as advisor for quality control and monitoring	<p>Training Impact Evaluation: Spatial Environmental Planning Design and completion of manuals and forms for training course evaluation in the context of the Human Resource Development Programmes and SEP-NET (Spatial Environmental Planning Network) in India. It contains:</p> <ul style="list-style-type: none"> • Evaluation of Training courses by participants, evaluation of participants by trainer, evaluation of the training effect by the organisation/institution of the participants and summary evaluation by the Quality Assurance Group at the Central Pollution Control Board in Delhi. • 8 workshops in Delhi with the Nodal Training Institutions of SEP-NET were held to introduce the evaluation concept and the use of forms and methods. • Design of the Operational Plans 2001 through 2004, integration of WEB-based communication Platform and preparation for e-learning pilot projects
2001 (6 weeks)	Dongying, China	INTEGRATION Environment & Energy on behalf of GTZ	Short Term Expert	<p>Cleaner Production and Monitoring „Strengthening the Environmental Protection Bureau, City of Dongying“ Effect Analysis (incl. TIE) of the period 1996 to 2001 in the fields of industrial environmental protection, Cleaner Production and Audit, promotion of environmental ideas and the environmental laboratory.</p>

Environmental Impact Assessment				
Date	Location	Company	Position	Description
1995 to 2004	Bavaria	City of Nuremberg and various Highway Administrations	Project Manager, Senior Advisor	10 Environmental Impact Assessments for road construction, layout plans. Expert for evaluation methods, vegetation inventories and analysis and landscape ecology

15. Other relevant information (Publications)

Reviewing activities:

Reviewer for the Czech Academy of Science (till 2002)

Reviewer for the "Journal of Vegetation Science" – Official Organ of the International Association for Vegetation Science (till 1999-2003)

Publications:

Major Manuscripts:

Fischer H.S., F.A. Bemmerlein (1986, 1987, 1991): *Numerische Methoden in der Ökologie*. University of Erlangen, Geobotany 157 S.

Bemmerlein-Lux F.A., H.S. Fischer, R. Lindacher (1989, 1991): *Aufnahmefethoden. Multivariate Methoden in der Ökologie II*. University of Erlangen, Geobotany 111 S.

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Essays

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Books and papers:

Bemmerlein F.A., F.B. Bemmerlein (1984): Mais und Zeit. In: Freiberg, J. et al. (Hrsg), 3 Welten - eine Umwelt. Saarbrücken, S: 165-195.

Bemmerlein F.A., H.S. Fischer (1985): Das pflanzensoziologische Programmsystem am Regionalen Rechenzentrum Erlangen. Hoppea 44: 373-378.

Bemmerlein F.A. (1986): Bearbeitung von Lebensformgruppen mit numerischen Methoden. Untersuchungen an der Vegetation von Mauern in NW-Spanien, Tuexenia 6: 391-403.

Fischer H.S., F.A. Bemmerlein (1989): An outline for data analysis in phytosociology: past and present. Vegetatio 81: 17-28. Reprinted in: L. Mucina, M.B. Dale (1989): Numerical syntaxonomy. Advances in vegetation science 10. Kluwer Acad. Press. 215 S.

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- Zimmermann R., F.A. Bemmerlein (1989) Hrsg.: Materialien zur Stadtökologie: Schulumfeld in Nürnberg-Gostenhof (Ost). Didaktischer Brief 123, Stadt Nürnberg - Pädagogisches Institut.
- Bemmerlein F.A., R. Lindacher, R. Böcker (Red.) (1990): Standard-Datenschlüssel "Flora und Vegetation". Symbole für die Dokumentation und automatische Datenverarbeitung floristischer und vegetationskundlicher Daten. (*IFANOS Reports II*) Veröff. des Bund der Ökologen Bayerns Heft 2. 87 S.
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[http://en.openei.org/wiki/Capacity_Needs_Diagnostics_for_Renewable_Energies_\(CaDRE\)](http://en.openei.org/wiki/Capacity_Needs_Diagnostics_for_Renewable_Energies_(CaDRE))
- Bank P., F. Bemmerlein-Lux, I. Gagica, E. Hajredini (2012): Sustainable Development Atlas to ensure comprehensive and balanced rural development for the Municipality of Dragash / Dragaš, Kosovo. UNDP, Conservation of Biodiversity and Sustainable Land Use Management in Dragash/Dragaš. Volume I to V, approx. 280 p

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- Disaster Management Institute, Bhopal (2010): "Safety in transportation of hazardous substances by road" Brochure and Training Module. DMI/InWEnt/GTZ-ASEM 36p; Editor
- Disaster Management Institute, Bhopal (2010): "Hazards Identification and control measures in chemical (industrial) workplaces" Brochure and Training Module. DMI/InWEnt/GTZ-ASEM 32p; Editor
- Disaster Management Institute, Bhopal (2010): "First Aid in iDRM" Brochure and Training Module. DMI/InWEnt/GTZ-ASEM 32p; Editor
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- Disaster Management Institute, Bhopal (2010): "Industrial Disaster Response" Brochure and Training Module. DMI/InWEnt/GTZ-ASEM 32p; (Editor)
- Gupta A.K., S.S. Nair (2013): Environmental Legislation for Disaster Risk management – Module 1. (Editor); GIZ Germany and NIDM New Delhi 90 p
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- Vogelbacher A. (2013): Case Study - Hydrological Forecasts - Requirements and Best Practice. National Institute of Disaster Management, (Editor) GIZ Germany and NIDM New Delhi – 110002, 66 p
- Bach C., A. K. Gupta, S. S. Nair, J. Birkmann (2013): Critical infrastructures and Disaster Risk Reduction in the Light of Natural Hazards. National Institute of Disaster Management, (Editor) GIZ Germany and NIDM New Delhi – 110002, 48 p
- Gupta A.K., S.S. Nair, F. Bemmerlein-Lux, S. Chatterji (2013): Disaster Management and Risk Reduction - Role of Environmental Knowledge. NAROSA Publishing House. 316 p
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March 2013

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Key words	

Available as Short Term Expert:	Yes
Available as Long Term:	No
Honoraria expected:	550€