

CURRICULUM VITAE

1. Name: Mohammad Rais

2. Date of birth: 01st Jan., 1963; **Nationality:** Indian

**Experience: after Ph.D. (June 1991):
22.5 Years Research, Development, Administrative experience
at National and International level (India and Southeast Asia, Canada)**

3. Current Research/faculty positions and address:

- Senior Principal Scientist: (Scientist 'F')
Resource Planning and Utilization for Regional Development (RPURD)
CSIR-NISTADS (Group IV(1) Scientist since 1992)
- Professor
Faculty: Academy of Scientific and Innovative Research (AcSIR)-CSIR

Address:

CSIR-National Institute of Science, Technology, and Development Studies (NISTADS)
K.S. Krishnan Road, Pusa Gate, New Delhi-110012, India

E-mail: mohammad_rais@hotmail.com

Mobile: +91-9868423173; +91-11-25843052 (O), +91-11-22245741 (R)

Administrative responsibilities:

- Chairman: Purchase Committee NISTADS: 2009-12 & 2013 onwards till date
- Appellate Authority (RTI-Act) NISTADS: Current (since 2012 till date)
- Chairman Outreach Committee NISTADS: Current (since 2012 till date)
- Coordinator: Seminar/Conference Committee for 4 years until August 2013
- Member Scientist Screening Committee: 2010-11
- Coordinator: Academy of Scientific and Innovative Research (AcSIR) until December 2013
- Mission Director CSIR-800-NISTADS (Until August 2013)
- Nodal Officer: Knowledge Grid (CSIR-NISTADS): 2006-2006
- Coordinator: 7 National Training Programmes at NISTADS: 1993-95

4. Educational qualification:

S. No.	Degree	Year of Passing	University / Institute	Subject
1.	B. Sc. Ag. & A. H. (Honours)	1983	G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand	Agriculture & Agril. Econ.
2.	M. Sc. (Ag.)	1985	G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand	Agriculture Economics
3.	Ph. D.	1991	Indian Institute of Technology (I.I.T.) Kanpur	Ag. Development Economics

5. Academic/ Research Experience Employment:

S. No.	From	To	Name of organization	Position held
1.	24.02.1992	23.02.1997	CSIR-NISTADS	Scientist B
2.	24.02.1997	23.02.2001	CSIR-NISTADS	Scientist C
3.	24.02.2001	23.02.2005	CSIR-NISTADS	Scientist E-I
4.	24.02.2005	23.02.2010	CSIR-NISTADS	Principal Scientist
5.	24.02.2010	Till date	CSIR-NISTADS	Senior Principal Scientist (Sc. F) & Professor AcSIR

6. Area of specialization:

A: Major Expertise and area of work/experience:

- Knowledge Management, Science Policy, Project Management, Programme Networking and collaborative partnership with National Institutions, UN agencies, NGOs, and other relevant stakeholders, with proven language, communications, consultation, negotiation skills,
- Team Building of partners for synergetic and collaborative Programme delivery in multi-sector and multi level approach; strong technical and analytical abilities to identify, judge and engage experts for achieving the agreed plans and performance targets,

- Programme Oversight; management; monitoring progress; undertake evaluation and time-bound reviews and prepare progress reports of regional /national programmes with multidisciplinary National and International teams;
- Capacity building of national institutions in Programme development and implementation and best practices application,
- Executed large number of Science Policy and Development related sponsored/externally funded research projects sponsored by national and international organizations, like, Department of Science and Technology (DST), Ministry of Sc. & Tech, Min. of Environment & Forests, Ministry of Rural Development, International Development Research Foundation (IDRC), World Bank, etc.

B: International experience on for Science Policy and knowledge management:

Afghanistan , Canada, France, Hong Kong (China), India ; Indonesia , Macau (China), Malaysia, Nepal, Singapore, Thailand, The Netherlands, Switzerland, UK, USA, Vietnam.

- I organized Intentional Expert Group Workshop during 1995-96 on Decision Support Systems (DSS) for Environmentally Sustainable Development (ESD) at UNU/IIST Macao. Experts from developing and developed countries contributed to the Workshop.
- I have organized six National level training programmes during 1992-94 on Environment Management for Sustainable Development in New Delhi. The training programmes were sponsored by World Bank through Ministry of Environment and Forests, Govt. of India.

7. Honours/Awards received:

- Best research paper awards in 2009 by Indian Society of Plant Genetic Resources (ISPGR), New Delhi
- Invited by United Nations Development Programme (UNDP), Kabul as Senior Advisor
- UNU/IIST Macau Post-Doctoral Fellowship:
- B.Sc.: National Merit Scholarship
- M.Sc.: Indian Council of Agricultural Research (I.C.A.R.) Junior Research Fellowship
- Ph.D.: Indian Institute of Technology (I.I.T.) Kanpur Senior Research Fellowship

8. Professional affiliation/Membership of Professional Societies:

- Life Member of the International Development Foundation- Asian Branch.
- Life Member Indian Academy of Social Sciences
- Life Member Indian Science Congress Association

9. Research Publications:

(a) No. of selected research publication: 35

(b) Five best publication:

1. Rais M, Sheoran, A. 2015. 'Scope of Supply Chain Management in Fruits and Vegetables in India', Journal of Food Processing Technology. Vol. 6, No. (3), pp 427-434.
2. Rais, M, Acharya, S. Sharma. N. 2013. 'Food Processing Industry in India: S & T Capability, Skill, and Employment Opportunities', Journal of Rural Development. Vol. 32, No. (4) pp 451-480.
3. Rais, Mohammad, Khan, S. Sharma. D.C 2009. 'In-situ on Farm Agro-biodiversity Conservation in Mid-hills of Indian Central Himalaya', Indian Journal of Plant Genetic Resources, 22(2): 144-151.
4. Rais, Moammad, Pazderka, Bohumir and van Loon, Gary W. 2009. 'Agriculture in Uttarakhand, India—Biodiversity, Nutrition, and Livelihoods', Journal of Sustainable Agriculture, Vol. 33 No. 3. Pp.319 — 335.
5. Rai, M, Sharma. D.C. 2008. 'Characterizing Indicators for Sustainable Land Management in Indian Himalayan Sloping Lands'. Journal of Environment Assessment Policy and Management. Vol. 10. No. 4. Pp 431-460.

10. No. of books authored/edited: 2

11. No. of patents granted: NA

12. Dissertation Masters supervised: 10

Annexure- 9 (a)

Selected Research Publications:

- 1 Rais M, Sheoran, A. 2015. 'Treatment of Sugarcane Industry Effluents: Science & technology issues', Indian Sugar. Vol. LXIV, No. (9), pp 47-58.
- 2 Rais M, Sheoran, A. 2015. 'Scope of Supply Chain Management in Fruits and Vegetables in India', Journal of Food Processing Technology. Vol. 6, No. (3), pp 427-434.
- 3 Rais, M, Acharya, S. Sharma. N. 2013. 'Food Processing Industry in India: S & T Capability, Skill, and Employment Opportunities', Journal of Rural Development. Vol. 32, No. (4) pp 451-480.
- 4 Rais, M., Farooquee, N.A.; VanLoon, G.V. 2012. Agro-biodiversity Conservation in Indian Central Himalaya: On Farm (In-situ) Practices, Technical Monograph published by LAP LAMBERT Academic Publishing GmbH, Germany. (ISBN-10: 3847374427)
- 5 Rais, M., VanLoon, G.W. 2012. Policy Development to Support Biodiversity within Agricultural Systems of Hilly Regions of Uttarakhand, North India. In Chettri, N; Sherchan, U; Chaudhary, S; Shakya, B (eds) (2012) Mountain biodiversity conservation and management: Selected examples of good practices and lessons learned from the Hindu Kush Himalayan region. ICIMOD Working Paper 2/2012. Kathmandu: ICIMOD
- 6 Rais, Mohammad, and Nehal A. Farooquee, N.A. 2011. Agro--biodiversity and livelihoods R&D in Uttarakhand, in: India SCIENCE and TECHNOLOGY Report 2011, FoundationBooks (Cambridge University Press- India) New Delhi.
- 7 Rais, Mohammad. 2010. Policy Development to Support Biodiversity within Agricultural Systems of Hilly Regions of Uttarakhand in North India. Poster Paper accepted in International Conference on Biodiversity: Biodiversity and the UN Millennium Development Goals: Challenges for Research and Action. December 1-3, 2010, Frankfurt/Main, Germany.
- 8 Rais, Mohammad, Sharma. D.C, Khan, S.2009. Agro-biodiversity and Indian Central Himalayan Agriculture–A Paradigm. In: Agriculture: Tradition, Modern Technology and Globalization in India and China, Ed. Kharbanda V.P. and Pei Guo. NISTADS, New Delhi, CRDP/CAU, Beijing., pp. 363-380
- 9 Rais, Mohammad, Khan, S. Sharma. D.C 2009. 'In-situ on Farm Agro-biodiversity Conservation in Mid-hills of Indian Central Himalaya', Indian Journal of Plant Genetic Resources, 22(2): 144-151.

- 10 Rais, Moammad, Pazderka, Bohumir and vanLoon, Gary W. 2009. 'Agriculture in Uttarakhand, India—Biodiversity, Nutrition, and Livelihoods', *Journal of Sustainable Agriculture*, Vol. 33 No. 3. Pp.319 — 335.
- 11 Rai, M, Sharma. D.C. 2008. 'Characterizing Indicators for Sustainable Land Management in Indian Himalayan Sloping Lands'. *Journal of Environment Assessment Policy and Management*. Vol. 10. No. 4. Pp 431-460.
- 12 Rais, M. Crane; J. et. al. 2006. Regional rural economic regeneration assessment and strategies for Afghanistan, NABDP Project, United Nations Development Programme (UNDP), Kabul, Afghanistan
- 13 Rais, M. Holly, R. et. al. 2007. Sub-Sector Analysis and Business Plan Development for North regions of Afghanistan, NABDP Project, United Nations Development Programme (UNDP), Kabul, Afghanistan
- 14 Rais, M. Mohaqeq, H. et. al 2007. Sub-Sector Analysis and Business Plan Development for Central regions of Afghanistan, NABDP Project, United Nations Development Programme (UNDP), Kabul, Afghanistan
- 15 Rais, M. Carlos, J. 2007. Sub-Sector Analysis and Business Plan Development for Western regions of Afghanistan, NABDP Project, United Nations Development Programme (UNDP), Kabul, Afghanistan
- 16 Rais, M., Holly, R., Carlos, J., Mohaqeq, H. et. al. 2008. Economic Viability and Technical Feasibility for selected niche sub-sectors of Afghanistan, NABDP Project, United Nations Development Programme (UNDP), Kabul, Afghanistan
- 17 Rais. M and vanLoon, G.W. 2006. Executive Summary of NISTADS-SHARP Project: Policy Development for Sustainable Livelihood of Hill Communities in Uttaranchal. Canadian International Development Agency (CIDA) supported collaborative project between NISTADS, New Delhi-Queen's University, Kingston, Canada. NISTADS, Pusa Gate, New Delhi, India
- 18 Rais. M, vanLoon, G.W., and Bohumir Pazderka, B. 2005. Policy Development to Support Agro-Biodiversity in Hills of Uttaranchal State in North India (extended abstract). First International DIVERSITAS Open Science Conference: "Integrating biodiversity science for human well-being", 9-12 November 2005, Oaxaca, Mexico.
- 19 Rais. M, vanLoon, G.W. 2004. Conflict between traditional crops and high yielding varieties in hills: Challenges of sustaining livelihood of marginal farmers in Uttaranchal (extended abstract). Paper presented in National WATERSHED SUMMIT: Confronting contradictions and challenges, organized by Integrated Watershed Development Project (A World Bank Project), Agriculture Department, Govt. of Haryana, November 24-26, 2004, Chandigarh, India
- 20 Rais, M. 2003. Harvesting agro-biodiversity of Uttaranchal: an eco-friendly approach. *Invention Intelligence*. 38 (4):187-189.

- 21 Rais, M. 2001. Sustaining Fragile Environment by the Poor of Sloping Lands: Lessons from South and Southeast Asian Case Studies (extended abstract). The 2001 Open Meeting of the Human Dimensions of Global Environmental Change Research Community, October 6-8, 2001. Rio de Janeiro, Brazil.
- 22 Lefroy*, R.D.B., Bechstedt*, H.D., and Rais, M. 2000. Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand. *International Journal of Agriculture, Ecosystems & Environment*, 81: 137-146.
- 23 Rais, M. 2000. Sustainable Land Management in Sloping Lands: Challenges at Farm Level (extended abstract). In *Proceedings of International Conference on Managing Natural Resources for Sustainable Agricultural Production in the 21st Century: February 14-18, 2000, Vol. 2.* J S P Yadav, G Narayanswamy, et. al. (eds.) Indian Society of Soil Science, New Delhi. Pp.99-101.
- 24 Rais, M. 2000. Integrating Transdisciplinarity in Assessing Sustainability: A Dialogue between Research Framework and Farmers Perception: Some Experiences of Sloping Lands from Southeast and South Asia. In *Proceedings of International Conference on Transdisciplinarity: Joint Problem Solving among Science, Technology and Society: February 27 – March 1, 2000, Zurich, Workbook I.* Rudolf Habreli, Roland W. Scholz, Alain Bill, Myrtha Welti (eds.). Zurich: Haffmans Sachbuch Verlag, Switzerland. Pp. 420-424.
- 25 Khan, S., Rais, M. and Qureshi, M.A. 1999. Training Programme of Spatial Technology in Environment Management – A Report. *Journal of Scientific & Industrial Research*, Vol. 58, January, pp 37-42.
- 26 Rais, M., Gameda*, S., Craswell*, E.T., Sajjapongse*, A., and Bechstedt*, H.D. 1999. Decision Support System for Sustainable Land Management: A South-East Asia Case. In: Kersten, G.E. et.al. (ed.) *Decision Support Systems for Sustainable Development: A Resource Book of Methods and Applications.* International Development Research Centre (IDRC) and Kluwer Academic Publishers. Boston/ Dordrecht/ London. Pp. 183-196.
- 27 Rais, M., Khan, S., and Qureshi, M.A. 1999. Geoinformatics for Sustainable Land Management: A Case Study of Tauru Block in National capital Region of India. For Presentation at: *Geoinformatics Beyond 2000: International Conference on Geoinformatics for Natural Resource Assessment, Monitoring and Management.* March 9-11. Dehradun. Organized by IIRS Dehradun – ITC Netherlands. pp. 113-118.
- 28 S. Gameda, Rais, M., Craswell, E, and Dumanski J. 1998. Integration of Local Knowledge and Scientific Research for An Expert System on Sustainable Land Management: A South East Asia Case. In *Proceeding: Fourth World Congress on Expert Systems: March 16-20.* Mexico City.

- 29 Craswell, E.T., Rais, M., and Dumanski J. 1998. Resource Management Domains as a Vehicle for Sustainable Development. *International Journal on Failure and Lessons Learned in Information Technology Management: Special Issue on Sustainable Development*. Vol.2 (1).pp 3-7.
- 30 Rais, M., Tulachan, P.M., and Partap, T. 1998. Framework for Evaluating Sustainable Land Management: A Case Study of Middle Hills in Nepal. *IBSRAM/ ICIMOD*, September 1998, IBSRAM, Box. 9-109, Bangkok. p. 46.
- 31 Rais, M., Craswell, E.T., Gameda, S., and Dumanski, J. 1997. Decision Support System for Evaluating Sustainable Land Management in Sloping Lands of Asia. *International Journal of Aerospace Survey and Earth Sciences (ITC Journal)*, 1997-3/4: CD-ROM File 22.PDF.
- 32 Khan, S. and Rais, M. 1997. Application of G.I.S. for Planning Wasteland Development: A Case Study of Ferozepur Jhirka Block in Gurgaon District. In Misra, B. (ed.) *Geographic Information System and Economic Development: Conceptual Applications*. Mittal Publishers. New Delhi.
- 33 Bjorner, D., Rais, M. 1996. Federated GIS Based Decision Support System for Sustainable Development: A Conceptual Architecture. *UNU/IIST (United Nations University/ International Institute for Software Technology) Research Report No. 61*. Macau
- 34 Bjorner, D. Mikolajuk, Z. Rais, M., and Yeh, A.G. 1996. Decision Support Systems for Environmentally Sustainable Development: Software Technology for Agenda'21. *International Expert Group Workshop*. February 25 - March 8 1996. Unpublished Workshop Proceedings. IDRC-UNU/IIST, Macau.
- 35 Gupta, A.K. and Rais, M. 1996. Managing Research Networks for Helping Marginal Framers: A Study of Inter-Organizational Linkages. *IIMA Working Paper No. 1338*. Centre for Management in Agriculture, Indian Institute of Management, Ahmadabad. India.
- 36 Rais, M. 1995. Application of GIS at Sub-District Level: Land Suitability Analysis: A Case Study of Tauru Block, North India". Working Paper-106/95, Sponsored by IDRC, Canada. CSIR / NISTADS. New Delhi.
- 37 Rais, M. and Khan, S. 1994. Application of Geographic Information System (GIS) in Monitoring Water Pollution. In: Mishra, M.K., Awasthi, S.K., and Singh, K.P. (Ed.) *Clean Environment: Strategies, Planning and Management: Proceedings of National Seminar February 26-27*. Legend India Environment Protection Pvt. Limited. Lucknow, India