

Dr Victor Squires

CURRICULUM VITA OF DR. VICTOR SQUIRES



VICTOR SQUIRES Dr. & Research Professor

Retired professor (University of Adelaide, Australia) Adjunct Professor, University of Arizona, USA,

Visiting Senior Professor, Gansu Agricultural University, Lanzhou, China

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Dr. Squires is an internationally recognized academic and researcher on many aspects of dryland management over career spanning many years. He has made significant contributions to arid zone ecology and management and on combating desertification in China, Africa and Middle East. Since retirement from the University of Adelaide in 1995 he has been a consultant to World Bank, various UN agencies including UNCCD and the Asian Development Bank. He was GEF Advisor on a World Bank pastoral development project in NW China in 2006-2007 and in Tajikistan in 2011-2012.

He was awarded two gold medals by the Government of China for his outstanding contributions to international cooperation science and technology in 2008 and a Friendship award in 2011.

1. Proposed Position	RESOURCE PERSON FOR DESERTIFICATION WORKSHOP		
2. Name of Staff	Dr Victor Squires		
3. Date of Birth	12/18/1937		
4. Education	Ph.D., Natural Resources Management & Range Ecology, Utah State University, USA, 1973 M.A. Ecology and Botany, University of New England, Australia, 1971 B.A. Botany/Geography, University of New England, Australia, 1967 Litt.B, Ecology, University of New England, Australia, 1969 Diploma of Agriculture, Animal Husbandry, University of Western Sydney, 1957	Nationality:	Australian
5. Membership of Professional Affiliations	Fellow of the Royal Society of South Australia Member of Society for Range Management, US Past Federal President of the Australian Rangeland Society Ecological Society of Australia		
6. Other Training	Computer techniques, ,		

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7. Countries of Work Experience

P.R. China, Algeria, Australia, Ethiopia, Iraq, Iran, Italy, Kazakstan, Tajikistan, Kenya, Mongolia, Morocco, Namibia, Rwanda, Saudi Arabia, South Africa, Thailand, Tunisia, UAE, USA

8. Languages

Indicate Proficiency:	Language		
	Speaking	Reading	Writing
good, fair, poor	English	Good	Good
	Spanish	Poor	Fair

9. Employment Record

From:	2011		
To:	Present	Employer	Gansu Agricultural University, Lanzhou
		Position held	Visiting Professor in Grassland Science
From	1995		University of Arizona, Tucson; USA
To:	Present	Employer:	
From:	1980	Position held:	Adjunct Professor, Environmental Research Laboratory
To:	1995	Employer:	University of Adelaide / Roseworthy Agricultural College, Australia
From:	1976	Position held:	Dean of Faculty of Natural Resources; later Director of the National Key Centre for Dryland Agriculture and Land Use Systems
To:	1980	Employer:	Commonwealth Scientific & Industrial Research Organisation (CSIRO) Division of Land Resource Management, Central Australian Laboratory, Alice Springs. Australia
From:	1971	Position held:	Principal Research Scientist/Senior Research Scientist
To:	1973	Employer:	Australian Meat and Livestock Corporation (on leave from CSIRO)
From:	1958	Position held:	PhD candidate in Range Science; Utah State University, USA
To:	1971	Employer:	CSIRO Division of Plant Industry, Australia
		Position held:	Technical Officer/Experimental Officer

Work that best illustrates capacity to do the tasks

Overall coordination as Team Leader to ensure technical

Name of Assignment: Optimizing Strategies for Desertification Control in Gansu

Year	2007-8 10 man-months
Location	Gansu and Xinjiang
Client	World Bank/GEF
Main project	Rural development in Drylands of Gansu and Xinjiang (18 counties)
Features:	
Position held	Team leader and natural resource management specialist

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outputs:	Activities performed:	Dr. Squires led a team of international and domestic consultants. Dr. Squires coordinated and managed the team, liaised with relevant government agencies, and, in collaboration with staff of the Gansu and Xinjiang Animal Husbandry Bureau He prepared a Report for World Bank/GEF and edited (jointly) a book published by Springer under the title "Towards Sustainable Use of rangelands in NW China" In 2013 a new book was published by SPRINGER "Combating desertification in Asia, ,Africa and the Middle East"
	Year:	2002, 5 person months
	Location:	Gansu, China
	Client:	ADB
	Main Project Features:	Project Management and Coordination; Environment Protection; Natural Resource Management; Biodiversity; Carbon Sequestration
	Position Held:	Team Leader and Natural Resource Management Specialist
	Activities Performed	Dr. Squires led a team of 13 international and domestic consultants to review and evaluate the on-going practice for land degradation control in Gansu Province. The project informed the current ADB_GEF Partnership on Land Degradation. Dr. Squires coordinated and managed the team, liaised with relevant government agencies, and, in collaboration with staff of the State Forestry Administration and implemented a collaborative review work plan. He monitored team performance to ensure they achieved agreed objectives. Dr. Squires analysed potential for carbon sequestration in the drylands, and thus developed an issue- based approach to solving environmental problems and identified how these related to integrated environment management. He prepared the Final Report which included a Strategic Plan to combat desertification and concept notes for the ADB funded investment loan.
	Name of Assignment:	Prevention and Control of Dust and Sandstorms in North-East Asia
	Year:	2003 to 2004, 13 person months
	Location:	Mongolia/PRC(Gansu/Inner Mongolia) Republic of Korea and Japan
	Client:	ADB/GEF
	Main Project Features:	Project Management; Regional Co-ordination, Desertification Control,
	Position Held:	Team Leader
	Activities Performed	Dr. Squires led a 10 person team on this joint ADB/GEF regional project. He initiated a Strategic Plan for the dust and sand storm control in China and Mongolia and developed a regional network to

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	provide early warning and forecasting of dust and sandstorm outbreaks. He oversaw development of 8 pilot projects in China and Mongolia to demonstrate best practice in dust and sandstorm prevention and control. He worked with regional partners to produce a 3 volume project report.
Name of Assignment:	Mobilisation of Resources to Combat Desertification in China
Year:	2001
Location:	Ningxia, PRC
Client:	IFAD/Global Mechanism of UNCCD
Main Project Features:	Desertification Rehabilitation; Report Production
Position Held:	Desertification Expert
Activities Performed	Conducted field visits to Ningxia and organized a diagnosis of desertification problems; developed an agenda for rehabilitation strategies; wrote Inception Report for proposed pilot projects to combat desertification in western China that involving sand encroached, salinized, and water-eroded land degradation. He also drafted the TOR, specifications and work schedules for project implementation
Name of Assignment:	Watershed Rehabilitation in Karaj Valley, Iran
Year:	1973 14 weeks
Location:	Tehran, Iran
Client:	World Bank
Main Project Features:	Vegetation Survey, Mapping and development of revegetation plan
Position Held:	Watershed management/rangeland specialist
Activities Performed	Surveyed and mapped 85,000 ha watershed. Developed a revegetation plan, wrote TOR for follow up work.
Assignment Location:	Hebei Watershed Management Project Impact Evaluation Hebei, PRC
Year:	1994, 1 month
Client:	AusAID
Main Project Features:	Dr Squires provided input into the methodology for identifying the impact of watershed management practices on the natural vegetation. He offered strategic advice on the formation of a regional sustainable water resources development and watershed management plan, management policies, and strategies and actions.
Position Held:	Natural Resource Management Specialist
Assignment	Development of Participatory Monitoring System
Year:	1990 1 month
Location:	Shaanxi, PRC

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Client:	China (Northern Loess Plateau)
Main Project Features:	Co-operative Field Project with Chinese Academy of Science
Position Held:	Ecological Monitoring
Activities Performed:	Environmental Monitoring Expert
Name of Assignment:	Dr Squires undertook field work in Shaanxi in the Northern Loess Plateau to establish a baseline survey for ecological monitoring. This entailed sandy land survey, review of best practice in sandy land rehabilitation..
Year:	South Khorasan Rangeland Rehabilitation and Refugee Settlement Project
Location:	Iran
Client:	UNSO
Year	1994 2 months
Main Project Features:	Rangeland Revegetation, M&E
Position Held:	Rangeland Revegetation Specialist
Activities Performed:	Rehabilitation of 80,000 ha of rangeland in South Khorasan that had been denuded by the large influx of Afghan refugees and their flocks and herds. Large scale revegetation with Atriplex was undertaken by the refugees who were trained in plant propagation and revegetation techniques for use in their homelands when they were repatriated. Dr Squires evaluated the project on behalf of UNSO against an M&E developed by UNDP; conducted a survey of 80,000 ha of revegetated rangeland, conducted training courses for Afghan refugees, and worked with the Iranian Forest and Range Organization and Mashad University to document to rehabilitation process and lesson learned.
Name of Assignment:	Xinjiang Sheep Research Project
Year:	1990 3.5 months
Location:	Xinjiang
Client:	AusAID
Main Project Features:	Development of fine wool sheep industry, rangeland rehabilitation
Position Held:	Range/livestock specialist
Activities Performed:	Training, GIS; Grassland Management; Livestock System Development; M&E Rangeland and Watershed Management Specialist Dr. Squires organized a training program and study tour to Australia for 4 local experts and post graduate training for 1 researcher. He set up a cooperative agreement between August 1st Agricultural College and University of Adelaide which led to staff and student exchange and

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cooperative research on land capability assessment. He also conducted joint research in Altai, in Fukang county and in the Tarim Basin (with Xinjiang branch of Chinese Academy of Science

Name of Assignment: Rangeland Inventory and Monitoring Project

Year: 1990 2 months

Location: China

Client: Australia- China council

Main Project Features: Training, Grassland Inventory and Monitoring

Position Held: Rangeland Specialist

Activities Performed: Dr. Squires assessed need for arid and semi-arid zone inventory and monitoring; gave lectures and workshops in Beijing, Shaanxi and Xinjiang for Chinese grasslands specialists and conducted a field survey to establish a baseline for ecological monitoring

Name of Assignment: National Action Plan to Combat Desertification and Drought

Year: 1998

Location: Ethiopia

Client: UNDP/UNSO

Main Project Features: Environment; Planning; Project Design

Position Held: Desertification Expert

Activities Performed: Dr. Squires reviewed all documentation on efforts to combat desertification including a technical review of soil conservation techniques. Reviewed the draft National Action Plan and prepared recommendations. Organized the first national forum Dr. Squires also drafted TOR, specifications and implementation schedules for the follow up project. Dr Squires conducted training courses in regional locations and organised a national forum to launch the National Action Plan to Combat Desertification

Name of Assignment: Fragile Ecosystems Project in North West China

Year: 1993 3 months

Location: Shaanxi, China

Client: ADB

Main Project Features: Project Management; GIS application and Training; Land Degradation Control

Position Held: Deputy Team Leader/Environmental Monitoring Specialist

Activities Performed: In collaboration with the Institute for Applied Remote Sensing Application of Chinese Academy of Sciences (CAS), Dr. Squires undertook a variety of capacity development activities for improved application of GIS and remote sensing management

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and planning development, including land capability assessment and estimation of sheep and goat carrying capacity on rangelands. He worked with the multidisciplinary team of consultants in remote sensing/GIS, soil erosion and rural development. Dr. Squires liaised effectively with CAS, the then Ministry of Coal and Power (now Ministry of Mining) and the Environmental Protection Authority (now SEPA).

Assignment	Faculty of Natural Resources and National Key Centre for Dryland and Land Use Systems
Activities Performed:	1980 to 1995 (15 years)
Name of Assignment:	Australia
Year:	University of Adelaide and Roseworthy Agricultural College, Australia
Location:	Applied Research, Teaching, Training
Client:	Lecturer, later Dean of Faculty and Director of the Centre Environmentalist and Rangeland Inventory Specialist Dr. Squires assisted Xinjiang Grassland Research Institute and the Xinjiang Research Institute for Desert, Soil and Plant Biology to conduct applied research on range land inventory and monitoring. He assisted with the refining the project design and coordinated with the counterpart for mutual understanding and agreement on project objectives, targets. He also outlined the research procedures and developed a work menu to ensure the results delivered met the requirements of the project goal and in the agreed time frame. Dr. Squires provided both technical and management supports to the domestic researcher and scientists and coordinated with donors and to ensure the project objectives achieved.
Position held	Research Scientist
Years	1958 – 1980 (22 years)
Location	New South Wales and Northern Territory, Australia
Employer	CSIRO
Main duties	Research on relations between livestock , arid rangelands and land degradation
Position	Research Scientist, later Officer-in-Charge
Main activities	Dr Squires researched the interaction between free ranging beef cattle and arid rangelands in Central Australia. He also researched rangeland/livestock relations, and the competitive interactions between sheep, cattle and goats in semi-arid New South Wales. Published textbook “Livestock Management in the Arid Zone” 1981 and numerous papers on

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grazing behaviour and dietary preferences

Assignment [Xinjiang Sheep Research Project](#)

Years 1990 3.5 months

Location Xinjiang

Client AusAID

Focus GIS; Grassland Management Planning

Position held Rangeland and Watershed Management Specialist

Main activities Dr. Squires conducted a rangeland survey, inventory and mapping of over 1 million ha. using remote sensing technology. He worked with the Grassland Research Institute in Xinjiang and the Animal Husbandry Bureau to develop rangeland management plans and setup the inventory and monitoring protocols. He introduced a grazing management system to herders in the project area and recommended grassland rehabilitation through livestock number control. He also carried out M&E.

Assignment [China – Australia Council's Xinjiang Sheep Project](#)

Year 1990, 1.5 person months

Location Xinjiang

Client Australia-China Council

Project focus Ecological Planning and Management; Biodiversity Conservation

Position held Watershed Rehabilitation and Rangeland Inventory Specialist

Main activities Dr. Squires used remote sensing to determine the present and potential grassland production in semi-arid areas. He identified the watershed situation in the dryland ecological system of the project areas and developed an ecological rehabilitation plan for integrated grassland management and biodiversity and carbon- sequestration restoration. He prepared project design and implementation plan for mountain uplands and headwater regions. Dr. Squires wrote the TOR for the research team He designed project activities in line with the goal of the project and conducted training programs. E.g. Desertified watersheds: impact of grazing and some management interventions. In: V.P. Papanastis and D. Peter (eds) Ecological basis of livestock grazing in Mediterranean ecosystems. European Commission Science, Research & Development, Brussels 1988 pp. 120-132

Date of Signing:

July 6 , 2014



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