

Professor Shahbaz Khan Publications List

Journal Papers (in addition to over 20 under review submitted journal papers)

1. **Khan S**, O'Connell N, Rana T and Xevi E (2007) Hydrologic-economic model for managing irrigation intensity in irrigation areas for watertable and soil salinity targets. *Environmental Modeling and Assessment* DOI 10.1007/s10666-006-9081-3. <http://dx.doi.org/10.1007/s10666-006-9081-3>.
2. **Khan S** (2007) Managing climate risks in Australia: Options for water policy and irrigation management. *Australian Journal of Experimental Agriculture*. Volume 47, Issue 12 (in press).
3. **Khan S** (2007) Equivalent Cropping Area and Whole Farm Water Balance Approaches to Reduce Net Recharge to Shallow Saline Groundwater from Rice Based Cropping Systems. *Paddy and Water Environment*. 5(3)
4. Hafeez MM, Van de Giesen, Bouman BAM, Mushtaq S, Vlek, P and **Khan S** (2007) Water Reuse and Cost-Benefit of Pumping at Different Spatial Levels in a Rice Irrigation System in UPRIS, Philippines. *Physics & Chemistry of the Earth*. March-May Special Online Volume on "Hydrological Assessment and Integrated Water Resources Management in Developing Countries.
5. Hafeez MM, and **Khan S**. (2007) "Spatial Mapping of Actual Crop Water Use in Ground Water Dominant Irrigation System" Australian Journal of Agricultural Research (AJAR), Australia (accepted and in press)
6. **Khan S**, Mushtaq S, Luo Y, Dawe D, Hafeez M, Rana T (2007) Economic Assessment of System-level Water Saving through Conjunctive Water Management Options: Examples from Liyuankou Irrigation System. *Irrig. and Drain*. (accepted and in press)
7. **Khan S**, Yufeng L and Ahmad A (2007), System Dynamics Modeling for Water Savings and Conjunctive Water Management. Special Issue of *Journal of Environmental Modelling and Software (EMS)*. (accepted and in press)
8. **Khan S**, Ahmad A and Wang B (2007) Quantifying rainfall and flooding impacts on groundwater levels in irrigation areas: a GIS approach. *Journal of Irrigation and Drainage, ASCE*. (accepted & in press)
9. **Khan S** and Akhtar A (2007) Upscaling water savings from farm to irrigation system level using GIS based agro-hydrological modelling. *Irrig. and Drain*. 56(1), 29-42. Also published online in Wiley InterScience (www.interscience.wiley.com) DOI: 10.1002/ird.284.
10. Elmahdi A, Malano H and **Khan S** (2006). Using a system dynamics approach to model sustainability indicators for irrigation systems in Australia. *Natural Resource Modeling* Volume 19(4):465-482.
11. **Khan S.**, Rana T., Yuanli C., Blackwell J. (2006) Can irrigation be sustainable? *Agricultural Water Management* 80:87–99.
12. Humphreys E., Lewin L.G., **Khan S.**, Beecher H.G., Lacy J.M., Thompson J.A., Batten G.D., Brown A., Russell C.A., Christen E.W., Dunn B.W. (2006) Integration of approaches to increasing water use efficiency in rice-based systems in southeast Australia. *Field Crops Research* 97: 19–33
13. Xevi E. and **Khan S**. (2005) A multi-objective optimisation approach to water management. *Journal of Environmental Management* 77:269-277.
14. **Khan S.**, (2005) "Rethinking Rational Solutions for Irrigation Salinity" *Australian Journal of Water Resources*, Special Issue on Salinity Engineering – Vol 9, No 2:129 -140
15. **Khan S**. (2004) Integrating hydrology with environment, livelihood and policy issues – the Murrumbidgee Model. Special Volume on Hydrology for the Environment Life and Policy. *Water Resources Development* Vol. 20, No. 3: 415-429.
16. **Khan S.**, Xevi E., and Meyer W. S. (2003) Salt, Water and Groundwater Management Models to Determine Sustainable Cropping Patterns in Shallow Saline Groundwater Regions – Special volume of the *Journal of Crop Production* titled Crop Production in Saline Environments. 325-340. Co-published simultaneously in Crop Production in Saline Environments, Global and Integrative Perspectives, Ed Sham S. Goyal, Surinder K. Sharma and D. Williams, Haworth Press. **Invited paper.**

17. **Khan S.**, Xevi E, O'Connell N. (2003) Better management of rice-based systems: advances in mathematical modelling. Special Issue of *Natural Resource Management Journal*. 55-62. **Invited paper.**
18. **Khan, S.** and Rushton K.R. (1996). Reappraisal of flow to tile drains, I. Steady state response. *Journal of Hydrology* 183: 351-366.
19. **Khan, S.** and Rushton K.R. (1996). Reappraisal of flow to tile drains, II. Time-variant response. *Journal of Hydrology* 183: 367-382.
20. **Khan, S.** and Rushton K.R. (1996). Reappraisal of flow to tile drains, III. Drains with limited flow capacity. *Journal of Hydrology* 183: 383-395

Book Chapters (10)

21. **Khan S.**, (2006) Legal Water reforms in the Murray Darling Basin: law and policy challenges. Chapter 3: Hydrology and Water Law – Bridging the Gap. Wallace J and Wouters P Editors. 60-78. IWA Publishing London.
22. **Khan S.**, (2006) Economic and institutional considerations for irrigation water savings. Ian R Willett and Zhanyi Gao Editors. *Agricultural Water Management in China*. Proceedings of a workshop held in Beijing, China 14 September 2005. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 123: 125-129.
23. Hafeez M. and **Khan S.** (2006) Tracking fallow irrigation water losses using remote-sensing techniques: a case study from the Liuyankou Irrigation System, China, Ian R Willett and Zhanyi Gao Editors. *Agricultural Water Management in China*. Proceedings of a workshop held in Beijing, China 14 September 2005. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 123: 67-75.
24. **Khan S.**, Mu J., Hu Y., Rana T., Gao Z (2006) Evaluating system-level impacts of alternative water-saving options, Ian R Willett and Zhanyi Gao Editors. *Agricultural Water Management in China*. Proceedings of a workshop held in Beijing, China 14 September 2005. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 123: 91-100.
25. Luo Y., **Khan S.**, Cui Y., Zhang Z., Zhu X (2006) Sustainable irrigation water management in the lower Yellow River Basin: a system dynamics approach. Ian R Willett and Zhanyi Gao Editors. *Agricultural Water Management in China*. Proceedings of a workshop held in Beijing, China 14 September 2005. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 123: 101-110.
26. Jayawardane NS., Gao Z., Blackwell J., Christen EW., **Khan S.**, Cheng X., Cook F., Biswas T., Zhang J., Meng G (2006) The potential use of FILTER technology for treatment and reuse of wastewater in China. Ian R Willett and Zhanyi Gao Editors. *Agricultural Water Management in China*. Proceedings of a workshop held in Beijing, China 14 September 2005. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 123: 142-152.
27. **Khan S (2006)** A System Harmonisation framework to achieve sustainable water savings in Rice Based Systems. Dr Ragab Ragab Editor. Proceedings of the International Workshop on Water Saving Practices in Rice Paddy Cultivation. International Commission on Irrigation and Drainage. 14-15 September 2006, Kuala Lumpur, Malaysia. 68-76.
28. **Khan S.** as a lead author (2006). "Cultivated Systems", Ecosystems and Human Well-Being, Millennium Ecosystem Assessment, Current State and Trends, Vol 1, Chapter 26. (747: 787)
29. Bouman B. A. M., Humphreys E., Tuong T. P., Barker R., Atlin N., Balasubramanian V., Bennett J., Dawe D., Dittert K., Dobermann A., Facon T., Fujimoto N., Gupta R.K., Haefele S.M., Heong K.L., Hosen Y., Ismail A. Johnson M., D., Johnson S., **Khan S.**, Shan L , Masih I., Matsuno Y. Pandey S., Peng S., Thiyagarajan T. M., and Wassman R. (2006) Rice: Feeding the billions. *Chapter 14 Comprehensive Assessment of Water Management in Agriculture*. 36 pp.
30. **Khan, S.** (2001) Hydrological economic models for developing policies for irrigated agriculture. In: Donna Brennan editor. *Water Policies Reform: Lessons from Asia and Australia*. Proceedings of the International Workshop held in Bangkok, Thailand, 8-9 June 2001. Australian Centre for International Agricultural Research (ACIAR) Nomograph No. 106: 269-280. **Invited Paper.**

Externally Refereed Conferences

31. **Khan S**, Yufeng L and Ahmad A (2007), System Dynamics Modeling for Water Savings and Conjunctive Water Management. Asian Simulation and Modeling Conference ASIMMOD '07, Chiang Mai, Thailand, Jan 9-11 2007.
32. Hafeez M and **Khan S** (2006) Mapping of Actual Evapotranspiration over Regional Scale Using NOAA/AVHRR Satellite Data. 13th Australasian Remote Sensing Conference, Canberra, November 20-24, 2006.
33. Fullagar I, Allan C, **Khan S** (2006). Managing across groundwater and surface water: an Australian 'conjunctive licence' illustration of allocation and planning issues. Ground Water and Surface Water Under Stress: Competition, Interaction, Solutions - proceedings 2006 USCID Water Management Conference (Boise 25-28 October). USCID, Denver, Colorado.
34. **Khan S** and Rana T (2006) Multidisciplinary Education for Civil Engineers Working in the Water Sector: Introduction to Hydrology for Environment, Life and Policy (HELP) Initiative. Proceedings of the International Civil Engineering Education Congress 2006 (ICEEC 2006) and the 7th National Civil Engineering Education Congress 2006 (7th NCEEC). October 18-19. Angeles City, Philippines.
35. Rana T and **Khan S**, (2006) Hydrologic - Economic Evaluation of Water Saving Technologies Using Systems Approaches – Example from Australia. International Conference on "Agricultural Engineering: Issues and Strategies"- Advances in Water Management, Faisalabad, Pakistan, 16–18 February, 2006.
36. **Khan S**, Mu J, Hu Y, Rana T, Zhanyi G (2005) Systems Approaches to Achieve Real Water Savings in Australia and China. 19th International Congress on Irrigation and Drainage, 10-18 September 2005 Beijing China. ISBN 81-85068-96-8.
37. **Khan S**. (2005) Irrigation Systems Water Savings: - Technical, Economic and Institutional Issues. Regional Workshop on the Future of Large Rice-based Irrigation Systems in Southeast Asia Ho Chi Minh City, Viet Nam, 26 to 28 October 2005. CD proceedings
38. Luo Y, Cui Y, **Khan S** and Zhang Z (2005) Scaling up spatially distributed hydrologic models of Liuyankou irrigation system. 19th International Congress on Irrigation and Drainage, 10-18 September 2005 Beijing China. ISBN 81-85068-96-8
39. Luo Y, Cui Y, **Khan S**, Zhang Z and Zhu X (2005) Sustainable irrigation water management in the lower Yellow River Basin: A system dynamics approach. 19th International Congress on Irrigation and Drainage, 10-18 September 2005 Beijing China. ISBN 81-85068-96-8
40. Schaeffer J, **Khan S**, Fahrner S (2005) The Potential for Artificial Recharge of Deep Aquifer Systems, in the Murrumbidgee Region, NSW, Australia. Where Waters Meet. International Association of Hydrogeologists Conference. 28 November-2nd December 2005 Auckland New Zealand.
41. Xevi, E. and **Khan S** (2005) Computer Software for Nodal Network Modelling, Simulation and Optimisation of Water Resources Management. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005. CD Proceedings.
42. Paydar Z, **Khan S** and Rana T. (2005) Application of 1-D and 3-D models in a regional context. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005. CD Proceedings.
43. **Khan S**. Mu J, Jamnani M. A, Hafeez M and Zhanyi G (2005) Modelling Country Water Futures using Food Security and Environmental Sustainability Approaches. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005. CD Proceedings.
44. Hafeez M and **Khan S**. (2005) Remote Sensing Application for Estimation of Irrigation Water Consumption in Liuyankou Irrigation System in China. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005. CD Proceedings
45. Luo Y, **Khan S**, Cui Y, Feng Y, Li Y (2005) Modeling the water balance for aerobic rice: a system dynamics approach. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005.
46. **Khan S**, Dassanayake D, Rana T (2005) Ocean Based Water Allocation Forecasts Using an Artificial Intelligence Approach. 16th Congress of the Modelling and Simulation Society of Australia and New Zealand. 12-15 December 2005.
47. Elmahdi,A., H. Malano,T. Etchells and **S. Khan** (2005) System Dynamics Optimisation Approach to Irrigation Demand Management. In Zerger, A. and Argent, R.M. (eds) MODSIM

- 2005 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand, December 2005, pp. 196-202. ISBN: 0-9758400-2-9. <http://www.mssanz.org.au/modsim05/proceedings/papers/elmahdi.pdf>.
48. Elmahdi A, Malano H & **Khan S** (2004) A System Dynamic Approach and Sustainability Indicator Modelling for the Coleambally Irrigation System 2004 World Conference on Natural Resource Modelling, Melbourne 12-15 December.
 49. Christen E.W., Bethune M., Hornbuckle, J.W. **Khan S.** and Wahba M.A.S. (2004). A Case Study of Irrigation and Drainage Management Impacts on the Murray River, Australia. Keynote paper for 1st African drainage workshop, December 6-9, 2004, Cairo, Egypt. CD Publication, Egyptian Committee on Irrigation and Drainage, Cairo. Pp 13
 50. Christen, E.W., Bethune, M., Hornbuckle, J.W. and **Khan, S.** (2004) The Murray Darling Basin – A Case Study of Drainage Impacts in a Multifunctional Resource System. Invited paper for: Agricultural Drainage: An integrated approach. Workshop, February 27, 2004. The World Bank, Washington DC.
 51. **Khan S.**, Rana T and Blackwell J. (2004) Can Irrigation Be Sustainable? Proceedings of the 4th International Crop Science Conference. Brisbane. September 2004. Invited paper
 52. Creighton C., Meyer W and **Khan S.** (2004) Farming and land stewardship. Case study – Australia's innovations in sustainable irrigation. 12th Australian Agronomy Conference. Brisbane. September 2004
 53. **Khan S.** (2004) Solutions for Irrigation Salinity. In Dogramaci S. and Waterhouse A Editors. Conference Proceedings, 1st Engineering Solutions Conference, Perth, 9-12 November. 284-296.
 54. Brunner, P., **Khan, S.**, Kinzelbach, W., (2003) Comparing different arid basins with secondary salination: Towards a unified definition of sustainability. In: S. Kang, B. Davis, L. Shan and H. Cai (Editors), International Conference on Water- Saving Agriculture and Sustainable Use of Water and Land Resources in Arid and Semiarid Areas. Shaanxi Science and Technology Press, Yanglin, China, pp. 866-877. also abstract published as Brunner, P., **Khan, S.**, Kinzelbach, W. (2004) Comparing different arid basins with secondary salinization: towards a unified definition of sustainability, Journal of Experimental Botany, Volume 54:(58-59).
 55. **Khan S.**, Connell N. O' , Wang Z. , Robinson D. and Xevi E. (2002) Environmental Concepts and Models for Participative Management of Irrigation Areas – Applications in the Murray Darling Basin. Irrigation Advisory Services and Participatory Extension in Irrigation Management Workshop organized by FAO – ICID. Montreal, Canada. Paper No. 2. **Invited paper.** <http://www.fao.org/AG/aGL/aqlw/ias/docs/paper2.pdf>.
 56. **Khan S.**, Ullah K., Christen E, Nafees H (2002) Modelling approaches to quantify the water balance in groundwater dominant irrigation systems: an example of Rechna Doab, Pakistan. In proceedings of International Workshop on Waterwise Rice Production. Bouman BAM, Hengsdijk H., Hardy B, Bindraban P. S., Toung T. P and Ladha J. K. Editors. 307-320. **Invited paper.**
 57. **Khan, S.**, Bonell, M., (2002). A Synthesis of Hydrology for Environment, Life and Policy (HELP) initiative. Proceedings of the OECD CRP Workshop on "An Interdisciplinary Dialogue: Agriculture and Ecosystems Management" (Ed. A.Woodhead, A.Jenkins, R.Packham). NSW Agriculture, Australia. Pp 251-260.
 58. **Khan S.**, Robinson D., E. Xevi, O'Connell N and (2001). Integrated hydrologic economic modelling techniques to develop local and regional policies for sustainable rice farming systems. 1st Asian Regional Conference on Agriculture, Water and Environment, ICID, September 2001, Seoul, Korea. (CD).
 59. **Khan, S.**, Stubbs, C., McLaughlin, D., (2001). A regional hydrologic economic framework for investigating sustainable irrigated landscape futures. In: Ghassemi F, White D, Cuddy S and Nakanis, Integrated Models for Natural Resources Management across Disciplines, Issues and Scales editors? Title, MODSIM 2001, Canberra, 10-13 December 2001. pp. 1165-1170.
 60. **Khan, S.**, Best, L., King, N., Wang, B., 2001b. GIS and groundwater modelling for implementing land and water management plans in irrigation areas. AURISA Australian Urban and Regional Information Systems Association (AURISA) 2001 – The 29th Annual Conference of AURISA, Grand Hyatt, Melbourne, Vic., 19-23 November 2001. (CD)..
 61. Schaeffer, J., Laird, J., **Khan, S.**, Yuen, S. (2001). The Potential for Groundwater Re-Injection into the Tertiary Aquifers at Loy Yang Power Mine, Latrobe Valley, Victoria, Australia. 10-14 September. Munich, Germany. New Approaches to Characterising Groundwater Flow. IAH

- XXXI Congress 2001. Electronic Proceedings. Also in: Geoenvironment 2001: 2nd ANZ Conference on Environmental Geotechnics, Newcastle, Australia, 28-30 November 2001.
62. **Khan S.**, Xevi E, O'Connell N, Madden JC and Zhou F (2000). A farm scale hydrologic economic optimisation model to manage waterlogging and salinity in irrigation areas. In: RL May, GF Fitz-Gerald & IH Grundy (eds.) EMAC 2000, Proceedings of the Fourth Biennial Engineering Mathematics and Applications Conference, RMIT University, Melbourne 10-13th September, 2000. pp: 179-182.
 63. Luo Y . F., **Khan S.**, Cui Y. L. and Beddek R. (2003) Understanding Transient Losses from Irrigation Supply Systems in the Yellow River Basin Using A Surface-Groundwater Interaction Model. Paper accepted for publication in MODSIM 2003, Townsville, July 2003.
 64. Xevi E. and **Khan S.** (2003). A Multi Objective Optimisation Approach to Water Management. Paper accepted for publication in MODSIM 2003, Townsville, July 2003.
 65. David K. and **Khan S.** (2003) Experimental and Numerical Studies to Quantify Groundwater Salinity Distribution within the Saturated Zone under highly Saline Irrigation Systems. Paper accepted for publication in MODSIM 2003, Townsville, July 2003.
 66. S.N Lisson, L.E. Brennan, P.L. Poulton, P.S. Carberry, K.L.Bristow, **S. Khan** (2003) - Assessing the economic and environmental benefits and risks of investing in recycled water for irrigation on the Darling Downs, Australia. MODSIM 2003, Townsville, July 2003.
 67. **Khan, S.**, Ullah K., Christen, E.W. and Nafees, H. M. (2002) Modelling approaches to quantify the water balance in groundwater-dominant irrigation systems - an example of Rechna Doab Pakistan. Pp 45-60. In: Managing surface and groundwater resources: Proceedings of the Int. workshop on conjunctive water management for sustainable irrigated agriculture in south Asia. Lahore: International water management institute. Eds. Qureshi, A.S., Bhatti, A. and Jehangir, W.A. ISBN: 92-9090-492-5.
 68. Christen, E.W. and **Khan, S.** (2002) Technical Constraints to Deep Groundwater Pumping for Conjunctive Water Management in the Coleambally Irrigation Area, Australia. Pp 187-216. In: Managing surface and groundwater resources: Proceedings of the Int. workshop on conjunctive water management for sustainable irrigated agriculture in south Asia. Lahore: International water management institute. Eds. Qureshi, A.S., Bhatti, A. and Jehangir, W.A. ISBN: 92-9090-492-5.
 69. Christen, E.W., **Khan, S.** and van Meerveld, I. (2002) Improving institutional arrangements for conjunctive water use in Australia, a case study of the Shepparton, Coleambally and Burdekin irrigation areas. Pp 187-216. In: Managing surface and groundwater resources: Proceedings of the Int. workshop on conjunctive water management for sustainable irrigated agriculture in south Asia. Lahore: International water management institute. Eds. Qureshi, A.S., Bhatti, A. and Jehangir, W.A. ISBN: 92-9090-492-5.
 70. Christen, E.W. and **Khan, S.** (2002). Requirements and constraints for sustainable shallow groundwater pumping for salinity control in irrigated areas. Pp 101-108. In: Managing surface and groundwater resources: Proceedings of the Int. workshop on conjunctive water management for sustainable irrigated agriculture in south Asia. Lahore: International water management institute. Eds. Qureshi, A.S., Bhatti, A. and Jehangir, W.A. ISBN: 92-9090-492-5.
 71. M. Kaleem Ullah, K.M., **Khan, S.**, Christen, E.W. and Ahmad, H.M.N. (2002). Role of surface and groundwater in meeting crop water demand in intensive agriculture systems using a nodal network approach. Pp 29-44. In: Managing surface and groundwater resources: Proceedings of the Int. workshop on conjunctive water management for sustainable irrigated agriculture in south Asia. Lahore: International water management institute. Eds. Qureshi, A.S., Bhatti, A. and Jehangir, W.A. ISBN: 92-9090-492-5.

Conference proceedings - internally refereed

72. **Khan S.** (2007) Wagga Wagga – Global Water Smart City Initiative; Wealth from Water Strategy. UPE 7: 7th International Conference on Urban Planning and Environment: World Class Cities Environmental Impacts and Planning Opportunities. Faculty of Architecture at Kasetsart University in Bangkok, Thailand. 3-5 January 2007.
73. **Khan S.** (2006) Pathways for Realising Whole of the Irrigation Systems Water Savings. FAO International Forum on Irrigation Modernization in Arid and Semi-arid Areas. 22-24 November 2006, Taiyuan and Yuncheng, Shanxi, China. 16 p. Invited paper.
74. **Khan S.** (2006) GIS and Remote Sensing Technologies for Efficient Agricultural Water Use: Examples from China and Australia Page 162 – Map Asia 2006, 5th Annual International Conference and Exhibition on Geographical Information Technology and Applications, 29

August – 1 September 2006, Queen Sirikit National Convention Center, Bangkok, Thailand. (Also on CD) www.mapasia.org. Online paper http://www.gisdevelopment.net/application/nrm/water/overview/ma06_151.htm.

75. Gabriel H. F. and **Khan S.** (2006) Policy Options for Sustainable Urban Water Cycle Management for Lahore, Pakistan. ERSEC Workshop on Sustainable Water Management - Problems and Solutions under Water Scarcity Beijing, China, 6-8 November 2006.
76. Jackson T, Watt J, Hirsi I and **Khan S** (2006) The Effect of Surface-Groundwater Interactions on Energy Consumption in Irrigation Systems: Hydrologic and Economic Perspectives. Proceedings of the ANCID 2006 National Conference and Exhibition, Darwin - Northern Territory - 15 to 18 October 2006.
77. Akbar S, Singh R and **Khan S** (2006) An Economic of On-Farm Channel Seepage Control in the Rice Growing Areas in Australia. Proceedings of the ANCID 2006 National Conference and Exhibition, Darwin - Northern Territory - 15 to 18 October 2006.
78. Meyer W, Durrack M, **Khan S**, Starkey G and Bourne J (2006) Improving multi-purpose water use productivity through Regional Irrigation Business Partnerships. Proceedings of the ANCID 2006 National Conference and Exhibition, Darwin - Northern Territory - 15 to 18 October 2006.
79. Hughes J and **Khan S**, Crosbie R, Helliwell S, Michalk D., (2006) The Role of Surface Hydrology in Planning Salinity Mitigation Strategies Page 21– Does the Science Hold Water - 10th Murray-Darling Basin Groundwater Workshop, Canberra 18-20 September 2006. (Also on CD)
80. **Khan S.**, (2006) Role of Aquifer Storage and Recovery for Harmonising Irrigation with Environment in Connected Systems Page 44 – Does the Science Hold Water - 10th Murray-Darling Basin Groundwater Workshop, Canberra 18-20 September 2006. (Also on CD)
81. Watt, J. and **Khan, S.**, (2006) “Do surface-ground water interactions matter in irrigation sustainability?” 9th River Symposium, Brisbane, 2006. 4-7 September 2006. <http://www.riversymposium.com/index.php?element=06WATTJacqueline>
82. Fullagar I and **Khan S**, (2006) Surface Water and Groundwater: Understanding the History and Fallout of Institutional Divorce Page 60 – Does the Science Hold Water - 10th Murray-Darling Basin Groundwater Workshop, Canberra 18-20 September 2006. (Also on CD)
83. **Khan S.** (2006) Cross-Disciplinary Education for Water Managers Using the Hydrology For Environment, Life And Policy (HELP) Approach. Key Note Paper and Address at the “International Seminar on Water and Environment – A Looming Crisis” August 20-21 2006, University of Agriculture Faisalabad, Pakistan. p 1-6.
84. **Khan S.** (2006) Legal and Institutional Arrangements to integrate Economic Development with Environmental Protection in Pakistan. International Seminar on Water and Environment – A Looming Crisis” August 20-21 2006, University of Agriculture Faisalabad, Pakistan. p 54-60.
85. **Khan S.**, Abbas A, Rana T (2006) A marine based geo-electrical technique for rapid assessment of seepage losses from irrigation channels. International Seminar on Water and Environment – A Looming Crisis” August 20-21 2006, University of Agriculture Faisalabad, Pakistan. p 107-113.
86. **Khan S.** (2006) Managing Climate Risks in the Driest Continent: Options for Water Policy and Irrigation Management Keynote paper presented at the Triennial Maize Conference at Griffith NSW 21-23 February 2006.
87. **Khan S.** (2005) Improving on-farm vs regional water use efficiency – who pays and owns the losses. Irrigation Association of Australia Conference Townsville 18-19 May 2005. <http://www.irrigation.org.au/Irrig2005/papers/Shahbaz%20Khan%20Onfarm%20vs%20regional%20WUE.pdf>
88. Akbar S and **Khan S.** (2005) Saving losses from irrigation channels – technical possibilities vs common pool realities. Irrigation Association of Australia Conference Townsville 18-19 May 2005. <http://www.irrigation.org.au/Irrig2005/papers/Saud%20Akbar%20Seepage%20losses.pdf>
89. **Khan S.** Malano H, Durack M (2005) ANCID2005 System Harmonisation for Applied Regional Planning (SHARP) - A Business Case for Harmonising Irrigation Systems. 23rd to 26th October 2005 Mildura, Victoria. CD proceedings.
90. **Khan S** (2005) Seasonal forecasting of water allocations in irrigated catchments. Hydrometeorological Applications of Weather and Climate Modelling’: extended abstracts of presentations at the seventeenth annual BMRC Modelling Workshop 3–6 October 2005. A.J. Hollis (editor) BMRC Research Report No. 111. pages 3-6.

91. Elmahdi A, Malano H, and **Khan, S.** (2004). Sustainability indicator for the Coleambally irrigation system, Australia: Susan (editor). 18th Victorian universities Earth and Environmental Conference, September 2004, Geological Society of Australia Abstract NO.75, P 27.
92. Elmahdi, A. Malano H, and **Khan, S.** (2004). A System Dynamic Approach and Irrigation Demand Management Modelling. Environmental Engineering Research Event 2004 conference 6-9 December 2004. Published by University of Wollongong Press ISBN: 1 74128 080 X.
93. Chartres C. and **Khan S.** (2004) Managing land productivity reductions in rainfed and irrigated systems – the Australian experience. Contribution to a SIWI CSD study for Water, production- and consumption patterns for food, and ecological sustainability, November 2004.
94. **Khan S.** and O'Connell N (2004) Challenges for salinity management in irrigated agriculture: meeting targets through on-farm actions GRDC Irrigation Update, Rich River Golf Club Moama, 17th August 2004, pages 43-46.
95. Creighton C., Meyer W and **Khan S.** (2004) Farming and land stewardship. Case study – Australia's innovations in sustainable irrigation. 12th Australian Agronomy Conference. Brisbane. September 2004.
96. Akbar S. and **Khan S.** (2004) Saving Irrigation Channel Losses: Comparative hydrologic economic analysis of reducing on-farm and off-farm conveyance losses. Proceedings of ANCID 2004 Conference South Australia 10-13 October 2004.
97. **Khan, S.**, Blackwell, J., Rana, T. and Leitte, A. (2004) Surface-Ground Water and Intra-Aquifer Interactions: The Sustainable Development Potential of Aquifers. The 9th Murray-Darling Basin Groundwater Workshop 2004. February 17-19, Bendigo. On CD.
98. **Khan S.** (2004) Systems Approach to Water Savings. Proceedings of ANCID 2004 Conference South Australia 10-13 October 2004.
99. Best, L.K., **Khan, S.**, Xevi, E, and Katupitiya, A. (2004) Risk-Based Groundwater and Salinity Modelling in Irrigation Areas. The 9th Murray-Darling Basin Groundwater Workshop 2004. February 17-19, Bendigo. On CD.
100. Whitten S., **Khan S.** and Collins D. (2004) Tradable recharge credits in Coleambally Irrigation Area. Australian Agricultural and Resource Economics Society 48th Annual Conference, Melbourne, 11-13 February, 2004.
101. Robinson R., **Khan S.** (2004) Economics of Forecasting Water Allocations. Australian Agricultural and Resource Economics Society 48th Annual Conference, Melbourne, 11-13 February, 2004.
102. **Khan S.** (2003). Challenges for salinity management in irrigated agriculture: meeting targets through on farm actions. The Centre for Salinity Assessment and Management Second Annual Symposium titled "modelling of rural and urban salinity". November 14, Sydney.
103. **Khan, S.** Blackwell J., Rana T and Beddek R. (2003) What are the options for managing extreme climate variability in Australian catchments? 50th ANCID National Irrigation Conference "Catchment Companions Growing Together" 19th - 22nd October 2003 Eastbank Centre, Shepparton Victoria. On CD.
104. Robinson R. and **Khan S.** (2003) Economic tradeoffs for managing offsite impacts of irrigation areas. 47th Annual Conference of the Australian Agricultural and Resource Economics Society Fremantle. 12-14 Feb 2003.
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