

December 2016

## CURRICULUM VITAE

Ariel Dinar

### PERSONAL

Birthplace: Rehovot, Israel  
Marital status: Married, 3 children  
Citizenship: Israel, USA

Specialization: Resource and Environmental Economics  
Regional Cooperation  
Water resource Economics  
Water Policy  
Management of International Water  
Cooperative Game Theory  
Production Economics  
Agricultural Extension

### EDUCATION

Ph.D. The Hebrew University of Jerusalem, 1984 (Agricultural and Resource Economics).  
Ms.C. with distinction, The Hebrew University of Jerusalem, 1974 (Agricultural Economics), with Distinction.  
Bs.C. The Hebrew University of Jerusalem, 1972 (Agricultural Economics).

### EXPERIENCE

*Lady Davis Visiting Professor* (sabbatical leave), Department of Environmental Economics and Management, The Hebrew University of Jerusalem, Robert H. Smith Faculty of Agriculture, Food & Environment, Rehovot, Israel (January 1, 2015-September 1, 2015).

*Professor of Environmental Economics and Policy*, School of Public Policy, University of California, Riverside, USA (September 1, 2014-).

*Professor of Environmental Economics and Policy*, Department of Environmental Sciences, University of California, Riverside, USA (December 1, 2008-August 31, 2014).

*Founding Director* Water Science and Policy Center, Department of Environmental Sciences, University of California, Riverside, USA (December 1, 2008-June 30, 2014).

*Lead Economist and Coordinator of Climate Change and Water Economics Research*, Development Economics Research Group, The World Bank, Washington DC, USA, (2006-Nov 30, 2008).

*Lead Economist*, Agriculture and Rural Development Department, The World Bank, Washington DC, USA, (2000-2006).

*Principal Economist*, Rural Development Department, The World Bank, Washington DC, USA, (1998-2000).

*Adjunct Professor*, School of Advanced Int'l Studies, Johns Hopkins University, Washington D.C., USA, (2000-2008).  
Courses: (1) Int'l Water: Conflict, Negotiation and Cooperation (Graduate level).  
(2) Political Economy of Public Policy (Graduate level, 2006).

*Adjunct Professor*, Department of Economics, George Washington University, Washington, D.C., USA, (1998-2000).  
Course: Cost-Benefit Analysis (Graduate and Upper Under-graduate levels).

*Senior Economist*, Rural Development Department, The World Bank, Washington DC, USA, (1996-1998).

- Economist*, Agriculture and Natural Resources Department, Agricultural Policy Division, The World Bank, Washington DC, USA, (1993-96).
- Visiting Lecturer*, Department of Economics, Ben-Gurion University of the Negev, Beer Sheva, Israel, (1992-93).  
Courses: (1) Water and resource economics (Upper Undergraduate level).  
(2) Water and environmental economics (Upper Undergraduate level).
- Senior Researcher (rank B)*, Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boker, Israel, (1992-93).
- Visiting Scholar*, Department of Agricultural Economics, College of Agricultural and Environmental Sciences, University of California, Davis, and USDA-ERS, (1990-92).  
Research foci: Multicrop production decisions in irrigated agriculture. Regional modeling and economic incentives for water quality and quantity control. The economics of water quality cooperatives.
- Visiting Researcher*, Department of Soils and Environmental Sciences, University of California, Riverside, and San Joaquin Valley Drainage Program, Sacramento, CA., (1988-90).  
Research foci: Adoption of improved irrigation and drainage technologies. Pricing policies and institutions for regional regulation of drainage quality and quantity.
- Researcher (rank C)*, Agricultural Research Organization, Department of R&D Economics, The Volcani Center, Bet-Dagan, Israel, (1987-88).  
Research foci: Economics of productivity and allocation of resources for research.
- Researcher*, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, (1985-88).  
Research foci: Patterns of agricultural technology exchange and cooperation in similar ecosystem: the case of Egypt and Israel. Economic aspects of solutions to salinity and drainage problems in the Jezreel Valley of Israel.
- Post Doctoral Research Associate*, University of California, Riverside, Department of Soils and Environmental Sciences, Riverside, CA., (1983-85).  
Research foci: Economics of agricultural drainage water reuse. Economic evaluation of solutions to drainage and salinity problems in irrigated agriculture. Crop water production functions for saline irrigation waters.
- Instructor*, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, (1980-83).  
Courses: Production Economics A and B (Undergraduate Level).
- Farm Management and Production Economics Specialist*, Israel Ministry of Agriculture, The Extension Service, Rehovot, Israel, (1974-87).  
Extension projects: Educational programs in economics and farm management. Introduction of computers at farm and regional levels for inter- and intra-farm analysis of agricultural production activities. Regional project for optimal allocation of irrigation waters on kibbutz farms during peak season of cotton irrigation.

## AWARDS AND RECOGNITIONS

- Distinguished Extension Economist*, The Israeli Extension Service, Ministry of Agriculture, Tel-Aviv, Israel, 1976.
- Department Chair recognition for Excellence in teaching*. Production Economics A and B, The Hebrew University of Jerusalem, Department of Agricultural Economics and Management, Rehovot, Israel, 1982.
- 1997 Best Article of the Year in the Agriculture and Resource Economics Review*. Dinar, A. and A. Wolf, "Economic and Political Considerations in Regional Cooperation Models".
- Teaching Stipend*, "Cooperative Game Theory in Water Resources" at the *International Summer School on Game Theory and the Environment* for Graduate Students organized by The CITG - Interuniversity Centre for Game Theory and its Applications, the

EAERE - European Association of Environmental and Resource Economists and the FEEM - Fondazione Eni Enrico Mattei, with the collaboration of the Department of Mathematics of the University of Genoa. Lavagna, Italy, September 2-14, 2002.

*Fulbright Foreign Scholarship Board and the U.S. Department of States. Fulbright Senior Specialists Program, Washington, DC, August 2003.*

**Since 10/2010**

*International Fellow, The Center for Agricultural Economic Research, Hebrew University of Jerusalem, Israel, November 2010.*

*Teaching and School Coordination Stipend, "Management of International Water" at the European Summer School on Environmental and Resource Economics for Graduate Students, organized by the European Association of Environmental and Resource Economists, Venice, Italy. July 1-8, 2012.*

**Since 10/2013**

*Lady Davis Visiting Professor in the Robert H. Smith Faculty of Agriculture, Food & Environment at the Hebrew University of Jerusalem, Israel, Academic year 2014-2015.*

*Fellow, Agricultural & Applied Economics Association. 2015 Fellow.*

*2016 winner of the Rollie Lamberson Research Award Medal of the Natural Resources Association for the paper Esteban E. and A. Dinar, "The Role of Groundwater-Dependent Ecosystems in Groundwater Management."*

## CONSULTING

California Department of Water Resources; U.S. Bureau of Reclamation; U.S. Department of Agriculture, Economic Research Service; The World Bank; California Energy Commission; Western Consortium for Public Health; California Cut Flower Commission, World Bank, European Union (FP7 Environment), International Food Policy Research Institute.

## TEACHING

Introduction to Environmental Economics (ECON/ENSC006)  
 Management of International Water (GBST130)  
 Economics of Natural Resources (ECON/ENSC143B)  
 Political Economy of Environmental Policy (ECON210E)  
 Applied Microeconomics for Public Policy (PBPL214)

## ADVISING

**Ph.D. Students:**

Major Advisor/Committee Chair/Co-chair:

- (1) Getachew Nigatu, Dept of Economics, UC Riverside "Basin Water Transfer Market during Climate Change: A Case of Blue Nile River", Graduated March 2012 (Economic Research Service, USDA, Washington DC, USA).
- (2) Javier Santiago Ortiz, Dept of Economics, UC Riverside, Civil War and Access to Water and Sanitation Services, Graduated March 2013.
- (3) Indrani Chatterjee, Dept of Economics, UC Riverside, "Runoff Variability & Transboundary Water Management: An Assessment of Risk to Regional Agreements from Likely Climatic Change", Graduated June 2014.
- (4) Sanval Nasim (2009-2015) "Modelling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan", Graduated November 2015 (Lahore University of Management Sciences, Lahore, Pakistan).
- (5) Arisha Ashraf (2010-) "The Impact of Climate Change on Western US Agriculture and Current Adaptation Strategies"

- (6) Uday Kumar (2010-2015) “Management of Drought and Climate Change: An Institutional Economics Approach”. Withdrew in 2015.
- (7) Edgar Tellez (2011-2016) “Essays on User Response to Alternative Policies to Modifying Subsidies for Groundwater Extraction”, Graduated August 2016 (Chino Basin Watermaster, Rancho Cucamonga, CA, USA).
- (8) Julie Escalera (2012-) “Water Quality and Irrigation Management in California Avocado Production”
- (9) Khadeedja Sani (2013-) “Development of a Water-Energy-Food Nexus Model for Decision-Making with Application to the Emirate of Dubai”
- (10) Diti Chatterjee (2013-2016) “Essays on the Contribution of the University of California Cooperative Extension: Knowledge, Agricultural Productivity and Irrigation Water Use Efficiency”, Graduated November, 2016.

Committee member:

- (1) Apurva Sanghi, Dept of Economics, Yale University “Impact of Climate Change on Indian Agriculture”, (1995-1998, May).
- (2) Benjamin Simon, Dept of Economics, George Washington University “Devolution of Federally Constructed Irrigation Projects”, (1998-2001, June).
- (3) Pradeep Kurukulasuriya, Dept of Economics, Yale University (“Climate Change impact and Adaptation in Developing Countries”, (2003-2006, May).
- (4) Monobina Mukherjee, Dept of Environmental Sciences UC Riverside “Valuation of Natural Resources and Their Conservation Policies”, (2009-2013, June).
- (5) Lucia Levers, Dept of Environmental Sciences UC Riverside, (2013-2015, June).
- (6) Juan Carlos G. Lopez, Dept. of Economics, UC Riverside (2014-2016, June).
- (7) Yuyu Zeng, Vrije Universiteit Amsterdam, Faculty of Economics and Business Administration (2014-2016, September).

## SERVICES

**Editorial Boards:**

Technological Forecasting and Social Change (1991-1997).  
 Journal of Environmental Economics and Management (1997-2000).  
 American Journal of Agricultural Economics (1997-2002).  
 Water Resources Research (2002-2004).  
 International Review of Environmental and Resource Economics (2006-2012).  
 Acta Oeconomica Pragensia (2007-2012).

**Founder / (Co) Editor in Chief:**

Strategic Behavior and the Environment, now Publishers, Founder and Editor in Chief (6/2009-12/2012), Co-Editor-in-Chief (1/2013-).  
<http://nowpublishers.com/journals/SBE/3.jsessionid=E8C1A0E5B8498EA4FFE9A5690150BF8B>  
 Water Economics and Policy, World Scientific Publishers, Founder and Editor-in-Chief (10/2013-).  
<http://www.worldscientific.com/worldscinet/wep>

**Committees and Boards:**

California Department of Water Resources Sub-Committee on Water and Drainage, (1989-1992).  
 Rosenberg International Forum on Water Policy, (1996-).

Organizing Committee, 6<sup>th</sup> Meeting on Game Theory Practice Dedicated to Development, Natural Resources and the Environment, Zaragoza, Spain, July 10-12, 2006 (2005-2006).

Advisory Committee, 7<sup>th</sup> Meeting on Game Theory and Practice Dedicated to Energy, Environment and Natural Resources, May 28 - 30, 2007, HEC Montréal, (2006-2007).

Water Sector Board, World Bank, Washington DC, USA (9/2007-11/2008).

Advisory Board, International Center for Water Economics and Governance in Africa (IWEGA), Universidade Eduardo Mondlane, Maputo, Mozambique, (4/2009-7/2013).

Board Member, (UCOWR) The University Council on Water Resources (7/2010-7/2013).

Chair, Search Committee for Director, California Water Resources Research Institute (CWRRRI) (12/2010-2/2011).

Member, Water Resources Center Archive Committee (12/2010-08/2011).

Member, Advisory Council, Southern California World Water Forum (6/2011-).

Member, Independent Science Panel to the Climate Change, Agriculture and Food Security Group (2011-2013).

Member, CNAS Executive Committee, University of California, Riverside (9/2012-8/2015).

Member, Research Advisory Committee (RAC) of the ongoing Pakistan Strategy Support Program (PSSP) Competitive Grants Program (CGP) for economic and related social science research for Pakistan, administered by the International Food Policy Research Institute (IFPRI) as part of its four-year activity under the auspices of the Planning Commission and funded by USAID (2014-2016).

**Since 10, 2013**

Member, SPP Executive Committee, University of California, Riverside (9/2015-).

Chair, UCR Search Committee, Agricultural Economist Cluster Hire (9/2015-4/2016).

Member, UCR Search Committee, Supply Chain Economist (9/2015-5/2016).

Graduate Advisor, School of Public Policy (9/2015-).

**Journal Reviews:**

American Journal of Agricultural Economics, Water Resources Research, Western Journal of Agricultural Economics, Technological Forecasting and Social Change; Agricultural Systems; Contemporary Policy Issues, Resource and Energy Economics, Journal of Agribusiness, Land Economics, The Journal of Developing Areas, American Water Resources Association Journal, J. of Agricultural and Resource Economics, Annals of Operations Research, Water Policy, Agricultural and Resource Economics Review, Australian J. of Agricultural Economics, Environment and Development Economics, Chariers d'Economie et Sociologie Rurales, The European Journal of Political Economy, Southern Journal of Agricultural and Applied Economics, Journal of Environmental Management, Climatic Change, International Negotiation, Food Policy, Ecological Economics, Proceedings of the National Science Foundation of the United States of America, International Environmental Agreements, Journal of International Interactions, Ambio, Hydrology Journal, African Journal of Agriculture and Resource Economics, Journal of Policy Analysis and Management, Journal of Economic Growth, Irrigation Science, Environmental Modeling and Software.

**Other Reviews**

Bi-national Agricultural Research and Development Fund (BARD); California Water Resources Center; Pacific Basin Advisory Group at Hawaii; U.S. National Science Council, U.S. National Science Foundation, U.S. AID; Social Sciences and Humanities Research Council of Canada.

## PUBLICATIONS

***Books***

- [1] Dinar, A. and D. Zilberman (Editors), *The Economics and Management of Water and Drainage in Agriculture*. Kluwer Academic Publishers, Boston, MA, 1991.
- [2] Dinar, A. and E. Loehman (Editors), *Water Quantity/Quality Management and Conflict Resolution: Institutions, Processes, and Economic Analysis*. Greenwood Publishing Group, Westport, CT, 1995.
- [3] Dinar, A. and J. Letey, *Modeling Economic, Management and Policy Issues of Water in Irrigated Agriculture*. Praeger Publishers, Westpoint, CT, 1996.
- [4] Easter K. W., M. Rosegrant, and A. Dinar (Editors), *Markets for Water - Potential and Performance*. Kluwer Academic Publishers, 1998.
- [5] Dinar, A. (Ed.), *The Political Economy of Water Pricing Reforms*. Oxford University Press, 2000.
- [6] Dinar, A. and D. Zilberman (Eds.), *Economics of Water Resources: The Contributions of Dan Yaron*. Kluwer Academic Publishers, 2002.
- [7] Dinar, A. (Ed.) *The Political Economy of Water Pricing Reforms* (in Chinese). Beijing: WaterPub (The General Institute of Water Resources and Hydropower Planning and Design), 2003.  
阿里-迪南 (编), 水价改革与政治经济, 中国水利水电出版社, 2003.
- [8] Tsur, Y., T. Roe, R. Doukkali, and A. Dinar, *Pricing Irrigation Water: Principles and Cases from Developing Countries*. Resources For the Future Press, 2004.
- [9] Palmieri, A., F. Shah, G. Annandale, and A. Dinar *Economic and Engineering Evaluation of Alternative Strategies for Managing Sedimentation in Storage Reservoirs* World Bank, 2003.
- [10] Maria-Saleth, R. and A. Dinar, *The Institutional Economics of Water: A Cross-Country Analysis of Institutions and Performance*. Cheltenham: Edward Elgar, 2004.
- [11] Kemper, K. B. Blomquist and A. Dinar (Eds.), *Integrated Riverbasin Management through Decentralisation*. Berlin: Springer, 2006.
- [12] Dinar, A., S. Dinar, S. McCaffrey, and D. McKinney, *Bridges over Water: Understanding Transboundary Water Conflicts, Negotiation and Cooperation*. World Scientific Publishers 2007.
- [13] Dinar, A., J. Albiac, and J. Sanchez-Soriano (Eds.), *Game Theory and Policy Making in Natural Resources and the Environment*. London: Routledge Publishing, 2008.
- [14] Dinar, A., R. Hassan, R. Mendelsohn, J. Benhin, and others, *Climate Change and Agriculture in Africa: Impact Assessment and Adaptation Strategies*. London: EarthScan, 2008.

**Since 12/2008**

- [15] Garrido, A. and A. Dinar (Eds.), *Managing Water Resources in a Time of Global Change: Mountains, Valleys and Flood Plains*. London: Routledge, 2009.
- [16] Dinar, A. and J. Albiac (Eds.), *Policy and Strategic Behaviour in Water Resource Management*, EarthScan, 2009.
- [17] Albiac, J. and A. Dinar (Eds.), *The Management of Water Quality and Irrigation Technologies*, EarthScan 2009.
- [18] Mendelsohn, R. and A. Dinar, *Climate Change and Agriculture: An Economic Analysis of Global Impacts, Adaptation, and Distributional Effects*. Cheltenham: Edward Elgar, 2009.
- [19] Dinar, A. and R. Mendelsohn (Eds.), *Handbook of Climate Change and Agriculture*. Cheltenham: Edward Elgar, 2012.

**Since 10/2010**

- [20] Hanak, E., J. Lund, A. Dinar, B. Gray, R. Howitt, J. Mount, P. Moyle, B. Thompson, *Managing California's Water: From Conflict to Reconciliation*. San Francisco: PPIC, 2011.
- [21] Dinar, A., S. Dinar, S. McCaffrey, and D. McKinney, *Bridges over Water: Understanding Transboundary Water Conflicts, Negotiation and Cooperation*. Second Edition. World Scientific Publishers 2013.
- [22] Dinar, A., D. F. Larson, and S. M. Rahman, *The Clean Development Mechanism: An Early History of Unanticipated Outcomes*, World Scientific Publishers, 2013.

- [23] Dinar, A. and A. Rapoport (Eds.), *Analyzing Global Environmental Issues: Theoretical and Experimental Applications and their Policy Implications*, Routledge, 2013.
- [24] Dinar, A. and K. Schwabe (Eds.), *Handbook of Water Economics*, Edward Elgar Publishers, 2015.
- Since 10/2013**
- [25] Dinar, S. and A. Dinar, *International Water Scarcity and Variability: Managing Resource Use Across Political Boundaries*, University of California Press, 2016.
- [26] Dinar, A., V. Pochat, and J. Albiac (Eds.), *Water Pricing Experiences and Innovations*, Springer Publishing, 2015.
- [27] Dinar, A. and Y. Tsur, *Economics of Water Resources*, Cambridge University Press, (Under contract, In Preparation).
- [28] Dinar, A. and Y. Tsur, *Management of Transboundary Water Resources Under Scarcity: A Multidisciplinary Approach*, World Scientific Publishers, (In Press).
- [29] Mutondo, J., S. Farolfi, and A. Dinar, *Water Governance Decentralization in sub-Saharan Africa: Between Myth and Reality*, SpringerBrifs, 2016.

### **Book Series and Sets**

- [1] Dinar, A. and D. Zilberman (Series Editors), *Natural Resource Management and Policy*. Kluwer Academic Publishers (Starting January 2005—Springer), Boston, MA, 1992-2005.
- [2] Dinar, A. (Series Editor), *Issues in Water Resource Policy*. Resources for the Future Press, Washington, DC, 2003- 2009.

### **Since 10/2010**

- [3] Dinar, A., J. Albiac, S. Farolfi, and R. Maria Saleth (Series Editors), *Global Issues in Water Policy*. Springer, Berlin, 2010-.

### **Since 10/2013**

- [4] Dinar, A. (Editor-in-Chief), *The WSPC Reference Set of Natural Resources and Environmental Policy in the Era of Global Change*. World Scientific Publishers, Singapore, 2013-2016.
- [5] Dinar, A. (Series Editor), *The WSP Lecture Notes in Economics* (<http://www.worldscientific.com/series/wslne>). World Scientific Publishers, Singapore, 2015-.

### **Special Journal Issues**

- [1] Dinar, A. (Guest Editor), Technology and Innovation in Agriculture and Natural Resources. *Technological Forecasting and Social Change*, 43 (3-4), 1993.
- [2] Dinar, S., and A. Dinar (Guest Editors). Negotiating in International Watercourses: Water Diplomacy, Conflict and Cooperation. *International Negotiation*, 5(2), 2000.
- [3] Dinar, A. (Section Convener). Transboundary Water Conflict and Cooperation. *Water Resources Research*. 40(5), 2004.
- [4] R. Maria Saleth, A. Dinar, and M. Samad (Guest Editors). Water Institutional Reforms: National and Global Perspectives, *Water Policy*. 7(1), 2005.
- [5] Patrone, F., J. Sanchez-Soriano, and A. Dinar (Guest Editors). Game Theory Practice in Natural Resources and the Environment. *International Game Theory Review* 10(3), September, 2008.
- [6] Sumaila, R., A. Dinar, and J. Albiac (Guest Editors) Game Theory Practice in Natural Resources and the Environment. *Environment and Development Economics* (2009).
- [7] Hassan, R., A. Dinar, and R. Mendelsohn. Climate Change and African Agriculture. *African Journal of Agricultural and Resource Economics* 2(1), March 2008.

### **Since 10/2010**

- [8] Dinar, A. and G. Zaccour (Guest Editors), Special Issue of Game Theory Applications to Environmental and Developmental Issues. *Environment and Development Economics* 18(1), February 2013.
- [9] Patrone, F., and A. Dinar (Guest Editors), Special Issue of Game Theory Applications to Global and International Issues. *International Game Theory Review* 14(4), 2013.

### **Since 10/2013**

- [10] Dinar, A., (Special Theme Editor), Special Theme Issue: Water Scarcity, Food Production, and Environmental Sustainability—Can Policy Make Sense? Choices, Quarter 3, 2016. <http://www.choicesmagazine.org/choices-magazine/theme-articles/theme-overview-water->

[scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense/theme-overview-water-scarcity-food-production-and-environmental-sustainabilitycan-policy-make-sense.](#)

***Papers in Refereed Journals*** (\* indicates a paper with graduate student, visiting student, or postdoc)

- [155] Moretti, S., F. Patrone, A. Dinar, and S. Abdel-Dayem, Sharing the Costs of Complex Water Projects: Application to the West Delta Water Conservation and Irrigation Rehabilitation Project, Egypt. *Games*. (Accepted for Publication July 3, 2016), 7, 18; doi:10.3390/g7030018, 2016
- \*[154] Regnacq, C., A. Dinar, and E. Hanak, The Gravity of Water: Water Trade Frictions in California. *American Journal of Agricultural Economics*. (Accepted for Publication May 27, 2016), 98(5):1273-1294, doi: 10.1093/ajae/aaw051.
- \*[153] Kahil, M. T., J. Albiac, A. Dinar, E. Calvo, E. Esteban, L. Avella, M. Garcia-Molla, The Debate on Water Policies: Evidence from Drought in Spain, *Water* (Accepted for Publication January 17, 2016), 8(2), 34. doi:10.3390/w8020034, 2016 (15 pp.).
- [152] Ortiz-Correa, J., M. Resende and A. Dinar, Impact of Access to Water and Sanitation Services on Educational Attainment, *Water Resources & Economics* (Accepted for Publication November 23, 2015). <http://dx.doi.org/10.1016/j.wre.2015.11.002i>, 2015 (17 pp.).
- \*[151] Ashraf, A., A. Dinar, E. Monteiro, and T. Gaston, Adaptation in California Agriculture: What Have We Been Assessing for Two and a Half Decades? *Climate Change Economics* (Accepted for Publication, October 21, 2015), 7(2), 2016, 1650001, DOI: 10.1142/S2010007816500019 (19 pp.)
- [150] Rahman, Shaikh M., A. Dinar, and D. F. Larson, Incidence and Extent of the CDM across Developing Countries. *Environment and Development Economics* (Accepted for Publication, October 11, 2015). <http://dx.doi.org/10.1017/S1355770X15000388>, January 2016 (24 pp.).
- [149] Dinar, A., J. Ortiz-Correa, S. Farolfi, J. Mutondo, Quantifying the Process and Performance of River Basin Water Management Decentralization in Sub-Saharan Africa. *Journal of African Economies* (Accepted for Publication, October 8, 2015).
- \*[148] Kahil, M. T., A. Dinar, J. Albiac, Cooperative Water Management and Ecosystem Protection under Scarcity and Drought in Arid and Semiarid Regions. *Water Resources & Economics* (Accepted for Publication, October 5, 2015), 13:60–74, 2016.
- \*[147] Esteban, E. and A. Dinar, The Role of Groundwater-dependent Ecosystems in Groundwater Management. *Natural Resource Modeling* (Accepted for Publication September 23, 2015), 29(1):98-129, 2016. [2016 winner of the Rollie Lamberson Research Award Medal of the Natural Resources Association.]
- [146] Nigatu, G. and A. Dinar, Economic and Hydrological Impacts of the Grand Ethiopian Renaissance Dam on the Eastern Nile River Basin. *Environment and Development Economics* (Accepted for Publication September 16, 2015). doi:10.1017/S1355770X15000352, 21(4): 532 – 555, August 2016.
- [145] Dinar, A. and M. Hogarth, Game Theory and Water Resources: Critical Review of its Contributions, Progress and Remaining Challenges. *Foundations & Trends in Microeconomics* (Accepted for Publication March 7, 2015), 11(1–2):1–139, 2015.
- \*[144] Kahil, M. T., A. Dinar, J. Albiac, Modeling Water Scarcity and Droughts for Policy Adaptation to Climate Change in Arid and Semiarid Regions. *Journal of Hydrology* (Accepted for Publication December 16, 2014), 522:95–109, 2015.
- [143] Botelho, A., A. Dinar, L. Pinto, A. Rapoport, Promoting Cooperation in Resource Dilemmas: Predictions and Experimental Evidence. *Journal of Behavioral and Experimental Economics* (Accepted for publication November 27, 2014), 54:40-49, 2015.
- [142] Pham Do, K. H., and A. Dinar, The Role of Issue Linkage in Managing Non-cooperating Basins: the Case of the Mekong. *Natural Resource Modeling* (Accepted for publication October 27, 2014), 27(4):492-518, 2014.



- [141] Zawahri, N., A. Dinar, and G. Nigatu, Governing International Freshwater Resources: An Analysis of Treaty Design, *International Environmental Agreements: Politics, Law and Economics* (Accepted for publication, July 7, 2014).
- [140] Dinar, A., Water and Economy-Wide Policy Interventions, *Foundations and Trends in Microeconomics*, (Accepted for publication, May 12, 2014), 10(2):85–164, 2014.
- [139] Baerenklau, K., K. Schwabe, and A. Dinar, The Residential Water Demand Effect of Increasing Block Rate Water Budgets, *Land Economics*, (Accepted for Publication, February 5, 2014), 90(4):683-699, 2014.
- [138] Botelho, A., A. Dinar, L. Pinto, and A. Rapoport, Time and Uncertainty in Resource Dilemmas: Equilibrium Solutions and Experimental Results, *Experimental Economics*, (Accepted for Publication, December 23, 2013), 17(4):649-672, 2014.

**^Since 10/2013**

- \*[137] Madani, K. and A. Dinar, Exogenous Regulatory Institutions for Sustainable Common Pool Resource Management: Application to Groundwater, *Water Resources & Economics*, (Accepted for Publication August 13, 2013), 2-3:57-76, 2013.
- [136] Rahman, S. M., D. F. Larson, and A. Dinar, Costs of Greenhouse Gas Emissions Abatement under the Clean Development Mechanism, *Climate Change Economics*, (Accepted for Publication, July 23, 2013), 6(1): doi: 10.1142/S2010007815500050, 2015
- \*[135] Dinar, A. and G. Nigatu, Distributional Considerations of International Water Resources under Externality: The Case of Ethiopia, Sudan and Egypt on the Blue Nile, *Water Resources & Economics*, (Accepted for Publication July 21, 2013), 2-3:1–16 [Lead Article].
- [134] Ambec, S., A. Dinar and D. McKinney, Water Sharing Agreements Sustainable to Reduced Flows, *Journal of Environmental Economics and Management*, (Accepted for Publication June 4, 2013), 66(3):639–655, 2013.
- [133] Patrone F. and A. Dinar, Strategic Behavior in Global and International Interactions, *International Game Theory Review*, 14(4):1-4, 2013.
- \*[132] Esteban, E. and A. Dinar, Modeling Sustainable Groundwater Management: Packaging and Sequencing of Policy Interventions. *Journal of Environmental Management*, (Accepted for Publication, December 28, 2012), 119:93-102, 2013.
- [131] Dinar, A. and G. Zaccour, Strategic Behavior and Environmental Commons. *Environment and Development Economics*, 18(1):1-5, 2013.
- \*[130] Dinar, A. and U. Kumar Jammalamadaka, Adaptation of Irrigated Agriculture to Adversity and Variability under Conditions of Drought and likely Climate Change: Interaction between Water Institutions and Social Norms. *International Journal of Water Governance*. (Accepted for Publication, October 4, 2012), 1:41–64, 2013.
- \*[129] Madani, K. and A. Dinar, Cooperative Institutions for Sustainable Common Pool Resource Management: Application to Groundwater. *Water Resources Research*. (Accepted for Publication, August 3, 2012), 48(9): DOI: 10.1029/2011WR010849, 2012.
- \*[128] Esteban, E. and A. Dinar, Cooperative Management of Groundwater Resources in the Presence of Environmental Externalities. *Environmental and Resource Economics*. (Accepted for publication, June 8, 2012), 54:443–469, 2013.
- [127] Dinar, A., D. F. Larson, and J. A. Frisbie, How California can take advantage of the Clean Development Mechanism to achieve its AB 32 goals by 2020. *California Agriculture*. (Accepted for Publication, May 21, 2012), 66(4):137-143, 2012.
- [126] Pham Do K. H., A. Dinar, and D. McKinney, Transboundary Water Management: Can Issue Linkage Help Mitigate Externalities? *International Game Theory Review*. (Accepted for Publication, December 18, 2011), 14(1):39-59, 2012.
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- [57] Dinar A. "Use Of Economic Incentives for Policy Intervention in Irrigated Agriculture" Paper presented at the IV Fòrum Arc Mediterrani *Tradicció i Innovació en la gestió de l'aigua*, Xarxa d'Universitats Institut Joan Lluís Vives, January 23-24, 2002, Girona and in the Gobierno de Aragón's Seminar *Water Demand Management*, January 25, 2002, Zaragoza, Spain.
- [58] Dinar A. "Regimes of Management of Global and Transboundary Natural and Environmental Resources", Paper Presented at the 2nd World Congress of Environmental and Resource Economists, Monterey, CA June 24-27, 2002.
- [59] Basist, A., C. Williams, R. Mendelsohn, P. Kurukulasuriya, A. Dinar, and R. Reddy "Using Satellite to Monitor Surface Wetness", Paper presented at the Fall Meeting of the American Geophysical Union, San Francisco, CA December 4-11, 2002.
- [60] Sur, M. and A. Dinar, Water-related Subsidies in Agriculture: Environmental and Equity Consequences". Paper presented at the OECD Workshop on Environmentally Harmful Subsidies, Paris, November 7-8, 2002.
- [61] Basist, A., C. Williams, F. Kogan, R. Mendelsohn, P. Kurukulasuriya, A. Dinar, and R. Reddy, "Climate and Rural Poverty", Paper presented at the 83rd American Meteorological Society Annual Meeting, Long Beach, California, February 9-13, 2003.
- [62] A. Dinar, S. Moretti, F. Patrone and S. Zara: "Application of Stochastic Cooperative Games in Water Resources", XV Italian Meeting on Game Theory and Application (IMGTA), Urbino, Italy, July 12-16, 2003. <http://www.econ.uniurb.it/imgta/program.asp>
- [63] Maria Saleth, R. and A. Dinar "Water Institutions and Sector Performance", Paper presented at the learning workshop on Water Reforms, Institutions' Performance, Allocation, Pricing, and Resource Accounting, 25th International Conference of Agricultural Economists, Durban, South Africa, August 16, 2003. <http://www.iaae2003durban.co.za/>
- [64] Dinar, A. and R. Maria Saleth "Water Institutions Health Index", Paper presented at the learning workshop on Water Reforms, Institutions' Performance, Allocation, Pricing, and Resource Accounting, 25th International Conference of Agricultural Economists, Durban, South Africa, August 16, 2003. <http://www.iaae2003durban.co.za/>
- [65] Williams, L., R. Mendelsohn, and A. Dinar "Impacts of Climate Change on Poor Countries", Paper presented at the winter meeting of the Allied Social Science Association, San Diego, California, January 3-5, 2004.
- [66] Mendelsohn, R., A. Basist, P. Kurukulasuriya, and A. Dinar, "Climate Change and Rural Income", Paper presented at the winter meeting of the Allied Social Science Association, San Diego, California, January 3-5, 2004.
- [67] Roe, T., A. Dinar, Y. Tsur, X. Diao, E. Cakmak, R. Hassan and R. Doukkali, Feedback links Between economy-wide and farm-level policies: Application to irrigation water management, Paper presented at the World Bank Economists' Forum, Washington DC, May 3-4, 2004.
- [68] Dinar, A., Role for game theory in contemporary conflicts and cooperation over natural resources, Keynote paper presented at the VI Spanish Meeting on Game Theory and Practice, Alche, Spain, July 12-14, 2004.
- [69] Dinar, A. Cooperation in managing transboundary water resources: evaluation approaches and experiences, Keynote paper presented at the 4<sup>th</sup> Rosenberg International Forum on Water Policy, Ankara, Turkey, September 3-9, 2004.

- [70] Dinar, S. and A. Dinar, “SCARPERATION: The Role of Scarcity in Cooperation among Basin Riparians”, Paper presented at the 2005 International Study Association Convention, Honolulu, Hawaii March 1-5, 2005.
- [71] Dinar A. Can Water Institutions be Cured? A Water Institutions Health Index, Keynote paper presented at the International Conference on Water Economics, Statistics, and Finance, Rethimno, Crete, Greece, July 8-10, 2005.
- [72] Dinar, A., S. Farolfi and F. Patrone and K. Rowntree, To Negotiate or to Game Theorize: Negotiations vs. Game Theory Outcomes for Water Allocation Problems in the Kat Basin South Africa. Paper presented at the 6th Mtg on Game Theory & Practice in Development, Natural Resources and Environment, Zaragoza Spain July 10-12, 2006.
- [73] Dinar, A. K. Kemper, W. Blomquist, and P. Kurukulasuriya, The Process and Performance of Decentralization of River Basin Resource Management: A Global Analysis. Paper presented at the AERE Session (“Water Resources”) of the 2006 AAEA Meetings, Long Beach, CA July 21-26, 2006.
- [74] Dinar, A. To Dilute or to Concentrate—Institutional and Policy Analysis of River Basin Management Decentralization (A Global Analysis). Invited presentation, Water Seminar Series, Nicholas School of the Environment and Earth Sciences at Duke University, North Carolina, November 10, 2006.
- [75] Dinar, S. A. Dinar and P. Kurukulasuriya, SCARPERATION: An Empirical Inquiry into the Role of Scarcity in Fostering Cooperation Between International River Riparians. Paper presented at the AERE Session (“Environmental Conflict and Cooperation”) of the 2007 ASSA Winter Meetings, Chicago, IL January 5-7, 2007.
- [76] Dinar, A., R. Hassan, R. Mendelsohn, J. Benhin and A. Delos Angeles, The Policy Nexus of Agriculture and Global Climate Change in Africa. Invited paper presented at the International Science-policy Forum on Climate Change Adaptation in Africa, Nairobi, Kenya, November 1-3, 2006.
- [77] Dinar Ariel, Resultados del Estudio sobre Cambio Climático y Desarrollo Rural en América del Sur, XI Reunión Consejo Agrícola, del Sur (CAS) Montevideo, Uruguay, November 17, 2006.
- [78] Dinar A., Impact of and Adaptation to climate change in African and South American agriculture: A Ricardian analysis. Fund-Bank Environment Seminar, Washington DC, November 28, 2006.
- [79] Maria Saleth, R., A. Dinar and S. Neubert, Evaluating the Institution-impact Interactions in the Context of Millennium Development Goals: Analytical Framework with Empirical Results. Invited Paper presented at the International Scientific Meeting 'Water Management, technology, economics and the environment', Fundación Ramón Areces, Madrid January 19-20, 2007.
- [80] Dinar, A., Análisis Económico sobre el Impacto del Cambio Climático y la Adaptación de la Agricultura en el Banco Mundial 1995-2007. Paper presented at the international workshop Difusión de Resultados Proyecto Cambio Climático y Desarrollo Rural, Montevideo, Uruguay, August 28-29, 2007.
- [81] Dinar, A., Strategic behavior in international water allocation. Paper presented at the World Water Expo session “Think Water Think Strategically”, conference on Water: Economics, Policy, Politics and Agricultural Celebration. Zaragoza, Spain May 12-15, 2008.
- [82] Dinar, A., Climate Change and International Water: The Role of Strategic Alliance in Resource Allocation. Keynote Paper presented at the 2008 UCOWR/NIWR Conference with the dual themes of “International Water Resources: Challenges for the 21st Century” and “Water Resources Education” July 22-24, 2008 in Durham, North Carolina.
- [83] Dinar, A., D. McKinney, S. Dinar, and Lynette de Silva, Innovation in Teaching Transboundary Water Courses - An Interdisciplinary Approach. Panel presentation at the 2008 UCOWR/NIWR Conference with the dual themes of “International Water Resources: Challenges for the 21st Century” and “Water Resources Education” July 22-24, 2008 in Durham, North Carolina.
- Since 12, 2008**
- [84] Dinar, A., S. R. Mahfuz, D. Larson and P. Ambrosi, Factors Affecting Levels of International Cooperation in Carbon Abatement Projects. Paper presented at the ISA's 50th Annual Convention New York City, NY, February 15-18, 2009.

- [85] Ambec, S. and A. Dinar, Hot Stuff: Would Climate Change Alter Transboundary Water Sharing Agreements? Paper presented at the ISA's 50th Annual Convention, New York City, NY, February 15-18, 2009.
- [86] Dinar, A., Fair sharing of water and distributional impact of climate change. **Invited Paper** presented at the 7th Toulouse Conference on Environmental and Resource Economics "Equity in environmental and resource economics", Toulouse, France, June 18-19 2009.
- [87] Rahman, S. M., A. Dinar and D. Larson, Global and Cross Country Adoption of the Clean Development Mechanism: Incidence, extent and Growth, Paper presented at the 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands 24 - 27 June 2009.
- [88] Ambec, S., and A. Dinar, Hot Stuff: Would Climate Change Alter Transboundary Water Sharing Agreements? Paper presented at the 17th Annual Conference of the European Association of Environmental and Resource Economists, Amsterdam, The Netherlands 24 - 27 June 2009.
- [89] Rahman, S. M., D. Larson and A. Dinar, The Costs of Emissions Abatement through the Clean Development Mechanism. Paper presented at the AAEA & ACCI Joint Annual Meeting, Milwaukee, Wisconsin, July 26-28, 2009.
- [90] Dinar, A., Climate Change and Water Resource Management: Tradeoffs and Opportunities in the field of International Water. **Invited Keynote Paper** presented at the 2nd International Conference on Water Economics, Statistics, and Finance, International Water Association, Alexandroupolis – Thrace, Greece, 3-5 July, 2009.
- [91] Wang, J., R. Mendelsohn, A. Dinar, and J. Huang, How China's Farmers Adapt to Climate Change. Paper presented at the XXVII Conference of the International Association of Agricultural Economists, Beijing, China, August 16-22, 2009.
- [92] Dinar, A., Game Theory and Water Resources: Critical Review of its Contributions, Progress and Remaining Challenges. **Invited Keynote Paper** presented at the Third Workshop on Game Theory in Energy, Resources and Environment, HEC Montréal, December 10-11, 2009.
- [93] Dinar, A., The Diffusion of the Clean Development Mechanism over Time and Across Countries. **Invited Paper** presented at the Conference on Governance of Green Energy and Carbon Reduction. Chung-Hua Institution for Economic Research, Taipei, Taiwan, January 20-22, 2010.
- [94] Dinar, A., Equity Consideration and Environmental Policies. **Invited Panel Presentation**: Combining Environmental and Development Goals: Strategies for Moving Forward, at the AERE/ASSA 2010 Allied Social Sciences Associations Annual Meeting, Atlanta, GA, January 5-7, 2010.
- [96] Dinar, A., B. Blankespoor, S. Dinar and P. Kulukurasuriya, The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. Paper presented at the ISA special workshop "Water and Security", the 51<sup>st</sup> ISA Annual Convention 2010, New Orleans, LA, February 16, 2010.
- [97] Zawahri, N., A. Dinar, G. Nigatu, Governing International Freshwater Resources: An Analysis of Treaty Design. Paper presented at the 51<sup>st</sup> ISA Annual Convention, New Orleans, LA, February 17-19, 2010.
- [97] Dinar, A., The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. **Invited Seminar** paper presented at a joint seminar of the Dept of economics and Political Science, University of California, San Diego, February 22, 2010.
- [98] Dinar, A., The Impact of Flow Variability on the Likelihood of Cooperation Among International Bilateral River Basin Riparians, **Invited Seminar**, University of Nebraska-Lincoln Water Center School of Natural Resources, March 3, 2010.
- [99] Dinar, A., The Impact of Water Supply Variability on Treaty Cooperation among International Bilateral River Basin Riparians. Paper presented at a seminar at the University of Pretoria, South Africa, April 14, 2010.
- [100] Dinar, A. Macro-Micro Linkages in Managing Water, Land, Environment, and Economic Development. Invited presentation, Santa Ana Watershed Project Authority, Commission Workshop. Santa Ana Watershed Project Authority headquarters, Riverside, CA June 1, 2010.
- [101] Fang, L. and A. Dinar, Efficiency and Equity Considerations in China's Rural Water Management. Paper presented at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Université du Québec à Montréal, June 28-July 2, 2010.

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- [102] Dinar, A., Would Climate Change Really Affect the Cooperation and Stability of International Water Treaties? **Invited** Presentation at the 2010-11 UF Water Institute Distinguished Scholar Seminar Series, University of Florida, Gainesville, February 3, 2011.
- [103] Dinar, A., The Era of Limits: Is there a water policy to save us from thirst? **Invited Presentation**, UCR Palm Desert's Imagining the Future Lecture Series, UCR-Palm Desert, April 6, 2011.
- [104] Dinar, A. The Water Science and Policy Center. Western Municipal Water District Board Meeting, May 4, 2011.
- [105] Madani, K. and A. Dinar, Various Institutions for Sustainable Management of Common Pool Resources: The Case of Groundwater. Paper presented at the 9th Symposium on Groundwater Hydrology, Quality and Management, 2011 World Environmental & Water Resources Congress, Palm Springs CA, (Proceedings of the World Environmental and Water Resources Congress 2011, ASCE, Bearing Knowledge for Sustainability, pp. 981-989) May 22-26, 2011.
- [106] Esteban E. and A. Dinar, Collective Actions and the Commons: Are Cooperative Groundwater Institutions Stable in the Presence of Environmental Externalities? Paper presented at the inaugural AERE Summer Conference, Seattle, June 8-10, 2011.
- [107] Nigatu, G. and A. Dinar, The Welfare Value of Allocate-and-Trade: Addressing Efficiency, Equity and Externality in the Eastern Nile River Basin. Paper presented at the 2011 UCOWR/NIWR Conference, Boulder, Colorado July 11-14, 2011.
- [108] Esteban E. and A. Dinar, Packaging and Sequencing Policy Interventions for Sustainable Groundwater Management. Paper presented at the 2011 UCOWR/NIWR Conference, Boulder, Colorado July 11-14, 2011.
- [109] Dinar, A., The Flexibility Mechanisms in the Kyoto Protocol - The CDM and how relevant would it be for California? Invited seminar presentation, University of California Center Sacramento, November 3, 2011.
- [110] Dinar, A., Social Preferences and Tradeoffs: Role of Policy in Environmental Regulation and Natural Resource Extraction and Conservation. Invited paper presented at a seminar at the IBM Research Center, Haifa, Israel January, 2012.
- [111] Nigatu G. and A. Dinar, Distributional Consideration in International Common Pool Resources under Externality and Climate Change Situations: The Case of the Blue Nile. Paper presented at the 53<sup>rd</sup> ISA Annual Convention San Diego, April 1-4, 2012.
- [112] Blankespoor, B., A. Basist, A. Dinar, and S. Dinar, Use of Satellite Data to Calculate Hydrological Variability and Probability of Extreme Flow Impacts on Treaty Stability: Analytical Framework and Illustration to the Zambezi and Mekong Basins. Paper presented at the 53<sup>rd</sup> ISA Annual Convention San Diego, April 1-4, 2012.
- [113] Rahman, S. M., D. F. Larson, and A. Dinar, The Cost of Mitigation Under the Clean Development Mechanism: An Implicit Cost Function Evaluation, AERE Summer 2012 Conference, Asheville NC, June 4-5, 2012.
- [114] Esteban, E. and A. Dinar, Groundwater-dependent Ecosystems: How Does the Type of Ecosystem Affect the Optimal Management Strategy? Paper presented at the 19th Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [115] Pham Do, K. H, A. Dinar, and Daene McKinney, Can Issue Linkage Help Mitigate Externalities and Enhance Cooperation? Paper presented at the 19<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [116] Rahman, S. M., A. Dinar and D. F. Larson, Cross-Country Adoption of the Clean Development Mechanism, Paper presented at the 19<sup>th</sup> Annual Conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 27-30, 2012.
- [117] Pham Do, K. H, A. Dinar, Can Issue Linkage Help Mitigate Externalities and Enhance Cooperation? Paper presented at the 4<sup>th</sup> World Congress of the Game Theory Society, Istanbul, Turkey July 22-26, 2012.
- [118] Dinar, A. The Water Situation in California and the Citrus Industry: Do we respond adequately? Presentation at the California Citrus Conference, Porterville, CA, October 11, 2012.



- [119] Botelho, A., A. Dinar, L. Costa-Pinto, and A. Rapoport, Time and Uncertainty in Resource Dilemmas: Equilibrium Solutions and Experimental Results. Paper presented at the Society for the Advancement of Behavioral Economics (SABE) section of the Allied Social Science Association Winter Meeting, San Diego, CA, January 5-8, 2013.
- [120] Ortiz Correa J. S. and A. Dinar, Effects of Civil War on Access to Water and Sanitation Services. Paper presented at the Association of Environmental and Resource Economists (AERE) section of the Allied Social Science Association Winter Meeting, San Diego, CA, January 5-8, 2013.
- [121] Dinar, A., The Intersection of Climate Change, Water, and Transboundary Issues. **Invited** Paper presented at the UC Institute on Global Conflict and Cooperation, University of California, San Diego, April 3-5, 2013.
- [122] Dinar, A., Economic Incentives and Institutional Arrangements in Addressing Increased Water Scarcity and Quality Problems: Theory and Case Studies. **Invited Keynote** Paper Presented at the 3<sup>rd</sup> International Water Association conference on Water Economics, Statistics and Finance, Marbella, Spain, April 24-26, 2013.
- [123] Dinar, A., Will Water Become a More Limiting Resource for Food Production? Discussion presented at the Agricultural and Applied Economics Association, Washington DC, August 4-7, 2013.

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- [124] Dinar, A. Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought with Application to the Jucar Basin (paper by Kahil, Dinar, Albiac), Paper presented at a seminar in the Department of Ag. Economics, University of Arizona, Tucson, AZ, May 1, 2014.
- [125] Dinar, A., (paper by Kahil, Dinar, Albiac), Modeling Water Scarcity and Droughts to Analyze Climate Change Adaptation Policies in The Jucar Basin, Spain, Paper presented at a seminar in the Department of Ag. Economics, University of Arizona, Tucson, AZ, May 2, 2014.
- [126] Dinar, A. Panel member: Is California Able and Ready to Tackle its Water Challenges? Giannini Foundation organized Conference , Climate Change: Challenges to California's Agriculture and Natural Resources, Sacramento, CA, May 19, 2014.
- [127] Baerenklau, K., K. Schwabe, A. Dinar, Residential Water Demand Effect of Increasing Block Rate Water Budgets, Paper presented at the AERE session in the AAEA Annual Meeting, Minneapolis, MN, July 27-29, 2014.
- [128] Crowley, D., J. Escalera, A. Dinar, and M. L. Arpaia, Applications of Neural Network Models as Decision Support Tools for Salinity Management of Avocado, Paper presented at the 3<sup>rd</sup> International Salinity Forum, Riverside, CA, June 16-18, 2014.
- [129] Escalera, J., A. Dinar and D. Crowley, Adoption of Technologies and Management Practices by California Avocado Growers in Response to Water Scarcity and Quality Problems, Paper presented at the 3<sup>rd</sup> International Salinity Forum, Riverside, CA, June 16-18, 2014.
- [130] Dinar, A. (paper by Kahil, Dinar, Albiac), Assessing Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought: The Case of the Jucar River Basin, Spain. Seminar presentation, Grantham Research Institute on Climate Change and the Environment and the Department of Geography and Environment, London School of Economics, UK, June 25, 2014.
- [131] Kahil, T. M., A. Dinar and J. Albiac, Cooperative Arrangements for Water Sharing and Ecosystem Protection under Scarcity and Drought with Application to the Jucar Basin, Spain, Paper presented at the 5<sup>th</sup> World Congress of Environmental and Resource Economists, Istanbul, June 28-July 2, 2014.
- [132] Kahil, T. M., A. Dinar and J. Albiac, Modeling Water Scarcity and Droughts to Analyze Climate Change Adaptation Policies in The Jucar Basin, Spain, Paper presented at the 5<sup>th</sup> World Congress of Environmental and Resource Economists, Istanbul, June 28-July 2, 2014.
- [133] Kahil, T. M., A. Dinar and J. Albiac, Cooperative Arrangements for Sustainable Water Management Under Scarcity and Drought in the Jucar Basin, Spain, Paper presented at the VI Congress of the Spanish-Portuguese Association of Resource and Environmental Economics (AERNA), Girona, Spain, September 4-6, 2014.
- [134] Dinar, A., J. Ortiz, S. Farolfi, and J. Mutondo, Quantifying the Process and Performance of River Basin Water Management Decentralization in Sub-Saharan Africa, Paper presented at the 11<sup>th</sup>

- meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- [135] Kahil, T. M., A. Dinar, J. Albiac, Efficient water management policies for climate change adaptation in the Jucar Basin, Spain, Paper presented at the 11th meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- [136] Baerenklau, K., K. Schwabe, and A. Dinar, Residential Water Demand Effect of Increasing Block Rate Water Budgets, Paper presented at the 11<sup>th</sup> meeting of the International Water Resource Economics Consortium, Washington DC, September 7-9, 2014.
- [137] Esteban, E. and A. Dinar, Groundwater-dependent ecosystems: How does the type of ecosystem affect the optimal management strategy? Paper presented at the VI annual meeting of the Spanish-Portuguese Association of Environmental and Resource Economists (ARENA), Girona, Spain, September 6-7, 2014.
- [138] Dinar, A. (papers by Kahil, Dinar, Albiac), What Can the Rain (or lack of it) in Spain Teach Us about Adaptation to Climate Change under Water Scarcity and Severe Drought? UC Center Sacramento, California, October 9, 2014.
- [139] Crowley, D. E., S. Campisi, M. L. Arpaia, and A. Dinar, Managing Avocado Fertilization and Irrigation Practices for Improved Yields and Fruit Quality. The California Avocado Society Annual Meeting, Temecula, California, October 10, 2014.
- [140] Dinar, A., Drought in California: What did California Learn and Can Teach from its Own Experience. Paper presented at the International Workshop, Botín Foundation/Rosenberg International Forum on Managing Drought and Scarcity in Semi-arid Lands: the Cases of California and Spain. January 29, 2015, Botín Foundation, Madrid.
- [141] Dinar, A., Food security and Environmental Sustainability: Opportunities and Risks of Irrigation with Non-conventional Waters to Address Climate Change Induced Water Scarcity in Southern California. Paper presented at the International Workshop on Securing Food Using Non-Conventional Water Sources, February 24, 2015, University of Haifa, Israel.
- [142] Pham Do, K. H. and A. Dinar, Issue Linkage as a Mechanism for Conflict Management in the Mekong Basin. Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- [143] Nigatu G. and A. Dinar, Can Damming the Blue Nile be Good for Food Production? Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- [144] Zeng, Y., H. Houba, A. Dinar, and M. Marencé. Damming Trans-boundary Rivers: A Welfare Analysis. Paper presented at the Conference “Management of Transboundary Water Resources Under Scarcity”, The Hebrew University of Jerusalem, Rehovot, Israel, June 22-13, 2015.
- [145] Dinar, A. Dealing with Prolonged Drought and Water Scarcity: Water Policy Reforms that Took Israel from a Water-scarce to Water-abundant Nation. Randall Lewis Outreach Seminar Series, The Center for Sustainable Suburban Development, UC Riverside, November 4, 2015.
- [146] Regnacq, C., A. Dinar, and E. Hanak, The Gravity of Water: Water Trade Frictions in California. Paper presented at the Agricultural & Applied Economics Association Invited Paper Session at the Allied Social Science Associations meeting, San Francisco, January 3-5, 2016.
- [147] Dinar, A., Prolonged Water Scarcity and Drought: Water Policy Reforms that Took Israel from a Water Scarce to Water Abundant Nation. Water UCI Colloquium Series, UC Irvine, January 20, 2016.
- [148] Dinar, A., L. De Stefano, G. Nigatu, and N. Zawahri, Why There Are So Few Basin-wide Treaties? Impact of Economies of Scale and Transaction Costs on Coalition Formation in the Case of International Water. Paper presented at the 57<sup>th</sup> ISA Annual Convention, Atlanta, Georgia, March 16-19, 2016.
- [149] Chatterjee, D., A. Dinar, and Gloria Gonzalez-Rivera, Impact of UC Cooperative Extension on California's Agricultural Productivity. Paper presented at the 91<sup>st</sup> Annual Conference of the Western Economic Association International, Portland, Oregon, June 29 - July 03, 2016.
- [150] Regnacq, C., A. Dinar, and Ellen Hanak, The Gravity of Water: Water Trade Friction in California. Paper presented at the Association of Environmental and Resource Economics Session at the 91<sup>st</sup> Annual Conference of the Western Economic Association International, Portland, Oregon, Jun 29 - Jul 03, 2016.

- [151] Jammalamadaka, U. K., and A. Dinar, Management of Water Resources in Adversity: The Role of Social Norms. Paper presented at the contributed or thematic session of the 22nd Annual Conference of the European Association of Environmental and Resource Economists in Zurich, Switzerland, June 22 - 25, 2016.
- [152] Tellez-Foster E., A. Rapoport, and A. Dinar, Groundwater and Electricity Consumption under Different Energy Subsidies Conditions: Evidence from Laboratory Experiments. Paper presented at the 12th Annual IWREC Meeting, World Bank Headquarters, Washington, DC, September 11-13, 2016.
- [153] Tellez-Foster E., A. Dinar, and A. Rapoport, Comparing Alternative Modifications of Energy Subsidies: The Case of Groundwater Extraction, Paper presented at the 12th Annual IWREC Meeting, World Bank Headquarters, Washington, DC, September 11-13, 2016.
- [154] Tellez-Foster E., A. Rapoport, and A. Dinar. Groundwater and Electricity Consumption under Alternative Subsidies: Evidence from the Laboratory. Paper presented at the ESA International Meeting, Jerusalem, Israel, July 7-11, 2016.
- [155] Dinar, A., Softening our Water Policy: *Water Scarcity and Behavior-change-based Policy*, Seminar Briefing on The Economics of Drought: Realities and Policy Choices, U.S. House of Representatives, 1300 Longworth House Office Building, Washington DC, July 11, 2016.
- [156] Dinar, A., Softening our Water Policy: *Water Scarcity and Behavior-change-based Policy*, Seminar Briefing on The Economics of Drought: Realities and Policy Choices, U.S. Senate 328A Russell Senate Office Building, Washington DC, July 11, 2016.
- [157] Regnacq, C., A. Dinar (presenter), and Ellen Hanak, The Gravity of Water: Water Trade Frictions in California, Paper presented at the USDA Economists Group and Council on Food, Agricultural and Resource Economics Sponsored Webinar: The Economics of Managing Drought: Policy Evaluation and Water Markets, 108A Jamie L. Whitten Building, Washington, DC, Tuesday, July 12, 2016.
- [158] Dinar, A., The Tale of Three Rivers: Jucar, Blue Nile and Mekong. Invited Seminar, Lower Mekong Public Policy Initiative, Ho Chi Minh City, Vietnam, December 13, 2016.
- [159] Dinar, A., Water Challenges in the XXI Century: Will the business as usual economics, statistics and finance tools and approaches be effective under future water scenarios? Keynote presentation, 4<sup>th</sup> International Conference on Water Economics, Statistics and Finance, Santiago Chile, April, 26-28, 2017.

#### ***Conference, Sessions, and Workshop organization, invited seminars (since 12/2008)***

- [1] Bernauer, T., H. Buhaug, and A. Dinar, Co-organizers, Workshop: Water and Security, ISA Annual Convention, New Orleans, February 16, 2010.
- [2] Dinar, A. Organizer. International Drought Symposium: Integrating Science and Policy. Riverside, CA, March 24-26, 2010.
- [3] Mendelsohn, R. and A. Dinar, Co-organizers, Closed Session on Impact of Climate Change on Agriculture, at the 4<sup>th</sup> World Congress of Environmental and Resource Economists, Université du Québec à Montréal, June 28-July 2, 2010.

#### ***Since 10/2010***

- [4] Dinar, A., and others, Co-Organizers, 8<sup>th</sup> Game Theory Practice Conference dedicated to Global and international issues, Riverside, California, July 11-12, 2011.
- [5] Esteban, E. and A. Dinar, Co-organizers special session: Groundwater and Ecosystems: Economics of Groundwater Management and the Well-being of Ecological Systems. 19<sup>th</sup> Annual conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 28-30, 2012.

#### ***Since 10/2013***

- [6] Suarez, D. and A. Dinar, 3<sup>rd</sup> International Salinity Forum, Riverside, California, June 16-18, 2014.
- [7] Tsur, Y. and A. Dinar, Management of Transboundary Water Resources Under Scarcity: Perspectives on agriculture and food security. The Hebrew University of Jerusalem, Rehovot, Israel, June 22-23, 2015.
- [8] Dinar, A., D. Zilberman, E. Hanak, and R. Kravitz, Water Pricing for a Dry Future: Policy Ideas from Abroad and their Relevance to California. UC Center Sacramento, February 2-3, 2016.

**Scientific Program Committee Member (since 12/2008)**

- [1] Economics of Drought and Drought Preparedness in the Mediterranean , Istanbul, Turkey, March 4-6, 2010.

**Since 10/2010**

- [2] 8<sup>th</sup> Meeting on Game Theory Practice Dedicated to Global and transboundary issues, Riverside CA, July 11-12, 2011.
- [3] 19<sup>th</sup> Annual conference of the European Association of Environmental and Resource Economists, Prague, Czech Republic, June 28-30, 2012.
- [4] 3<sup>rd</sup> International Conference on Water Economics and Statistics, International Water Association, Marbella, Spain, April 24-26, 2013.

**Since 10/2013**

- [5] 6<sup>th</sup> International Workshop on Cooperative Games and Multiagent Systems, Istanbul, Turkey, May 4-5, 2015.
- [6] 12<sup>th</sup> Annual IWREC Meeting, held at the World Bank Headquarters, Washington, DC, September 11-13, 2016.
- [7] 4<sup>th</sup> Conference of the International Water Association on Water Economics, Statistics and Finance, Catholic University of Chile, Santiago, Chile, April 26 – 28, 2017.

**RESEARCH GRANTS**

- [1] Yaron, D. and A. Dinar, *Economic analysis of Drainage and Salinity Problems in the Jisrael Valley*. Israel Water Commissioner (NIS30,000), 1987.
- [2] Dinar, A., *Adoption of Improved Irrigation and Drainage Reduction Technologies in the West Side of the San Joaquin Valley*. U.S. Bureau of Reclamation #'s 9-PG-20-03010 and 9-PG-20-03380 (\$120,000), 1988-1990. (with Mark Campbell a Social Scientist)
- [3] Dinar, A and R. E. Howitt, *The Economics of Water Quality Cooperation*. University of California Center for Cooperatives (\$17,854), 1991-1992.
- [4] Howitt, R., A. Dinar, E. Loehman, D. Zilberman, M. Aillery, E. Hoffman, *Regional Modeling and Economic Incentives for Water Quality and Quantity Control*. U.S. Geological Survey #14-08-001-G2084 (\$91,949), 1991-1993. (With Mark Grismer a Hydrologist)
- [5] Dinar, A and A. Xepapadeas, *Policy Implications of Environmental Regulations: The Case of Doing and Learning in a Non-Point Source Pollution*. Fondazione ENI Enrico Mattei, Millan, Italy #041-93 (26,000,000Lit.), 1992-1993.
- [6] Huffman, E., S. Rassenti, V. Smith, A. Dinar, and R. Howitt, *Environmental Change and Adaptive Resource Markets: Computer Assisted Markets for Water Allocation*. NSF, U.S. (\$846,600), 1996-2000.
- [7] Dinar, A., E. Kaufman, J. Oppenheimer, and A. Wolf, *International Fresh Water Disputes and Conflict Resolution - An Integrated Approach*. World Bank Research Support Budget (\$15,000 for Grant Preparation), 1996.
- [8] Dinar, A., R. Mendelsohn, R. Evenson, S. Lonergan, and Jyote Parikh, *Measuring the Impact of Climate Change on Indian Agriculture*. World Bank Research Support Budget (\$40,000), Electric Power Research Institute (\$45,000), 1996-1997.
- [9] Dinar, A. and R. Maria Saleth, *Comparative Analysis of Water Institutions and Their Impact on the Performance of the Water Sector in Various Countries*. World Bank Research Support Budget, DECRG, Norwegian TF, Swiss TF, and Dutch TF (\$212,500), 1997-2001.
- [10] Dinar, A. and Y. Tsur, *Guidelines for Pricing Irrigation Water Based on Efficiency and Implementation Costs (with Considerations of Fairness, Property Rights and Income Distribution)*, World Bank Research Preparation Budget (\$18,000), 1997-1998.
- [11] Dinar, A. and S. Zekri, *Impact of Climate Change on Tunisian Agriculture*, Norwegian Trust Fund (\$30,000), 1999-2000.
- [12] Dinar, A. and R. Doukkali, *Impact of Climate Change on Moroccan Agriculture*, Dutch Trust Fund (\$25,000), 1999-2000.
- [13] Dinar, A., Y. Tsur, T. Roe, and R. Doukkali, *Guidelines for Pricing Irrigation Water Based on Efficiency, Implementation Costs, and Equity*. World Bank Research Support Budget (\$147,000), 1999-2001.

- [14] Palmieri A, F. Shah, and A. Dinar, *Economic and Engineering Evaluation of Alternative Strategies for Managing Sedimentation in Storage Reservoirs*. World Bank Research Support Budget (\$176,400), 2000-2002.
- [15] Kemper, K., A. Dinar and G. Alaerts, *Integrated Riverbasin Management and the Principle of Managing Water Resources at the Lowest Appropriate Level—When and Why Does it (Not) Work in Practice?* World Bank Research Support Budget, Research Preparation Grant, (\$33,000), 2001.
- [16] Kemper, K., A. Dinar William Blomquist, and G. Alaerts, *Integrated Riverbasin Management and the Principle of Managing Water Resources at the Lowest Appropriate Level—When and Why Does it (Not) Work in Practice?* World Bank Research Support Budget, (\$350,000), 2002-2005.
- [17] Dinar, A., Mendelsohn, R., *Climate and Rural Poverty-Incorporating Climate into Rural Development Strategies*. World Bank Research Support Budget, Research Preparation Grant, (\$430,000), 2003-2006.
- [18] Dinar, A., GEF medium size targeted research-*Climate, Water and Agriculture: Impacts on and Adaptation of Agro-Ecological Systems in Africa*, (GEF-\$700,000; TFs-\$620,000), (2002-2005).
- [19] Dinar, A., T. Roe, Y. Tsur, R. Doukkali, R. Hassan, and E. Cakmak. *Macro-Micro Linkages of Irrigation Water Management*. (\$110,000), 2003.
- [20] Dinar, A., F. Patrone, C. Carraro. *Cooperative Arrangements for Allocation of Water among Production and Environmental Uses under Stochastic Supply Conditions*. World Bank Research Support Budget, Research Preparation Grant and the Italian TF (\$105,000), 2003-2004.
- [21] Dinar, A. and M. Asad. *Economic Assessment of Policy Interventions in the Water Sector of Mexico*. World Bank Mexico Department, Economic Sector Work (\$265,000) 2005-2006.
- [22] Dinar, A. and Rita Cestti. *Developing Tools and Methodologies to Support the Preparation of the a River Basin Management Plan in the Maritza River Basin, Bulgaria*. BNWPP TF (\$106,000), 2005-2006.
- [23] Dinar A. *Cooperative Arrangements to Water Quantity and Quality in the West Delta Region of Egypt*. (\$25,000), 2006. Pilot Project to test the concept.
- [24] Dinar, A., R. Maria Saleth and Susanne Neubert. *The Institutional Matrix of the Millennium Development Goals: An Empirical Study of Food Security Goals in Kalaoya Basin, Sri Lanka*. World Bank Research Committee (\$30,000), 2006.
- [25] Dinar, A. T. Roe, Y. Tsur, R. Hassan, and E. Cakmak. *Macro-Micro Feedback Links of Irrigation Water Management: phase 2 applied in South Africa and Turkey*. World Bank Research Committee (\$295,000) 2006-2008.
- [26] Dinar, A. *Long Term Sustainability of Hydropower-based Energy Generation and Water Allocation Multilateral Agreements within Changing Climate Scenarios*. World Bank, Knowledge for Change Program (KCP) (\$150,000) 2008-2009.
- [27] Dinar, A., P. Ambrosi and D. Larson, *Local Actions for Global Impact: Inference of the Role of the Flexible Mechanisms in Reducing GHGs*. World Bank, Knowledge for Change Program (KCP) (\$80,000) 2007-2008.

#### **Since 12/2008**

- [28] Dinar, A., *Water Policy for California*, Public Policy Institute of California, (\$40,000) May 2009-October 2010.
- [29] Dinar, A., *International Drought Symposium: Integrating Science and Policy*. NSF supported symposium and project preparation workshop, (\$45,000) March 24-28, 2010.
- [30] Dinar, A., *Water Policy and Management Challenges in the West*. Multi-State Hatch Project, U.S. Department of Agriculture, (\$95,000) October 2009 to September 30, 2014.
- [31] Dinar, A. and S. Farolfi (IWEGA), *Water Governance Decentralization in Africa: A new framework for Reform Process and Performance Analysis*, World Bank, (\$120,000) April 2010-April 2013.

#### **Since 10/2010**

- [32] Schwabe, K., K. Baerenklau and A. Dinar, *Adoption of Outdoor Water Conservation Technologies*. Giannini Foundation, (\$24,749) July 2012-June 2013.

- [33] Baerenklau, K., A. Dinar, and K., Schwabe, *Water Pricing Study*, Eastern Municipal Water District, (\$28,000), June 2011-May 2012.
- [34] Sickman, J., D. Jenerette, Robert Allen, M. Allen, A. Dinar, K. Baerenklau, M. Matsumoto, *The Aquifer System of Southern California: Addressing Key Gaps in Knowledge Regarding Groundwater Sustainability and Climate Change*, UCR 2020 Seed Projects Fund (\$35,000), August 2012-June 2012.
- [35] Crowley, D., M. L. Arpaia, A. Dinar, *Decision Support Tools for Avocado Production and Fruit Quality*, Avocado Commission (\$902,668), January 2012-December 2018.
- [36] Dinar, A. and D. Crowley, *Adoption of Technologies and Management Practices by California Avocado Growers in Response to Water Scarcity and Quality Problems*, Giannini Foundation, (\$25,000), July 2012-June 2013.
- [37] Dinar, A. and S. Helfand, *Modeling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan*, International Food Policy Research Institute (\$5,886), March 2012-December 2012.
- [38] Dinar, A. and S. Helfand, *Modeling Allocative Inefficiency of Irrigation Water across Agricultural Tenure Systems in Pakistan (Large Grant)*, International Food Policy Research Institute (\$40,000), July 2012-December 2013.
- [39] Dinar, A. and T. Gaston, *Adaptation of Western US Agriculture to Climate Change Induced Water Scarcity*, United States BOR Research and Development Office, Science and Technology Program (\$35,000), September 2012-December 2013.
- [40] Dinar A., *3<sup>rd</sup> Salinity Forum*, Riverside, California, June 16-18, 2014. Giannini Foundation (\$15,000), June 2012-June 2014.
- [41] Dinar A., *3<sup>rd</sup> Salinity Forum*, Riverside, California, June 16-18, 2014. UC ANR (\$30,000), June 2012-June 2014.
- [42] Dinar, A., D. Zilberman, and D. Parker, *Economic Estimates of University of California Cooperative Extension Impacts in California*, University of California Agricultural and Natural Resources Division (\$214,179), August 15, 2013-July 14, 2015.

#### Since 10/2013

- [43] Dinar A., *Impact of and Adaptation to Climate Change Induced Water Scarcity in Southern California/Desert Agricultural Production Regions*, Giannini Foundation, (\$27,000), July 2014-June 2015.
- [44] Dinar, A. and G. Gonzales-Rivera, *Impact of UC Cooperative Extension on California's Irrigation Water Use Efficiency*, Giannini Foundation, (\$27,000), July 2015-June 2016.
- [45] Ashraf, A. and A. Dinar, *Assessing the Resilience of Desert Farming Systems to Water Scarcity*, The John Randolph Haynes and Dora Haynes Foundation, (\$20,000), July 2015 – June 2016.
- [46] Dinar, A., A. Rapoport and Edgar Tellez-Foster, *Reforming Electricity Subsidies for Groundwater Extraction: A Field Study in Mexico*, The Center for Behavioral and Experimental Agricultural Environmental Research, (\$19,189), January 2016-July 2017.
- [47] Dinar, A. and D. Zilberman, *Water Pricing for a Dry Future: Policy Ideas from Abroad and their Relevance to California*, Sacramento, California, February 2-3, 2016. Giannini Foundation, Public Policy Institute of California, University of California, Division of Agriculture and Natural Resources, University of California, Berkeley, University of California, Riverside, Metropolitan Water District of California (\$40,000), January 2016 – February 2016.
- [48] Dinar, A., *Economic Consideration of Development and Use of Marginal Water in View of Water Scarcity and Environmental Pollution*. UCR Agricultural Experiment Station mission funding (\$17,000), July 2016-June 2017.