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**Education**

B.S., Civil Engineering, 1963 (magna cum laude), Polytechnic Institute of Brooklyn.

M.S., Ph.D., Engineering, 1966, 1969, Harvard University (Major - Water Resources Planning; Minors - Economics and Operations Research).

**Professional Experience**

- 1970-present      Professor (formerly Assistant Professor, 1970-1973, and Associate Professor, 1974-79), Department of Civil and Environmental Engineering, Stanford University.
- Peer E. Haas Director of the Haas Center for Public Service (2003-2006).
- Director of the Undergraduate Program on Urban Studies (1980 to 2003).
- Director of the Graduate Program in Resources Planning, formerly Infrastructure Planning and Management (1975 to 1988).
- Principal Investigator on research contracts and grants from the U.S. Army Corps of Engineers Institute for Water Resources, the Office of Water Research and Technology, the National Science Foundation, the Environmental Protection Agency, and others.
- Private consultation for firms (e.g., ESSA Technologies Ltd.), U.S. government agencies (e.g., Environmental Protection Agency and Council on Environmental Quality), governmental agencies in developing countries (e.g., Columbia's Ministry of the Environment and China's State Environmental Protection Administration), international agencies (e.g., World Health Organization and Economic and Social Commission for Asia and the Pacific), international research organizations (e.g., East-West Center and International Institute for Applied Systems Analysis), international non-governmental organizations (e.g., the World Commission on Dams), and international development agencies (e.g., the Asian Development Bank and the World Bank).

Workshops and shortcourses on various aspects of environmental policy design and environmental planning and management in: Guangzhou, People's Republic of China (PRC, May, 1987); Quezon City, the Philippines (November, 1989); Jakarta, Indonesia (March, 1990); Taipei, Taiwan (July, 1991 and June, 1992); Rio de Janeiro, Brazil (August, 1991); Beijing, PRC (June, 1992); Bogota, Colombia (November, 1992); Cartagena, Colombia (November, 1994); Qingdao, PRC (July, 1995); Cartagena, Colombia (January, 1998); Manila, the Philippines (March, 1998); Treviso, Italy (September, 1998); Beijing, PRC (May, 2000); Hong Kong, Beijing, PRC (June, 2000); Waikola, Hawaii (August, 2000); Beijing, PRC (March, 2001); Quito, Ecuador (July, 2001); Maui, Hawaii (July, 2001); Guayaquil, Ecuador (March, 2002); Galapagos, Ecuador, (April, 2002); and Kauai, Hawaii (July, 2002); Cartagena, Colombia (September, 2003); Quito, Ecuador (December, 2003).

### **Visiting Professorships and Research Appointments**

Visiting Professor, Istituto di Ricerca sulle Acque, Rome, Italy (January-August, 1979).

Visiting Professor, École Nationale des Ponts et Chaussées, Paris, France (September, 1987-August, 1988).

Visiting Research Scientist, Centre d'Enseignement et de Recherche pour la Gestion des Ressources Naturelles et de l'Environnement, Noisy-le-Grand, France (September, 1987-August, 1988).

Visiting Scholar, Faculty of Engineering, Kyoto University, Kyoto, Japan (April-June, 1992).

Visiting Professor, Istituto Universitario di Architettura di Venezia, Dipartimento di Urbanistica, Venice, Italy (September-November, 1996, September, 1998, and October 2008).

Visiting Professor, l'Institut National Polytechnique de Toulouse, ENSEEIHT, Toulouse, France (September-November, 2000).

Visiting Professor, Institut des Sciences de l'Ingénieur de Montpellier, Université Montpellier, Montpellier, France (September-December, 2003).

Visiting Professor, Venice International University, Program in Analysis and Governance of Sustainable Development, and Università Iuav de Venezia, Dipartimento di Urbanistica, Venice, Italy, October, 2008.

### **Professional Experience Before 1970**

- 1969-1970      Research Scientist, Land and Water Management Group, Center for the Environment and Man, Hartford, Conn.
- 1965-1969      Research Assistant, Division of Engineering and Applied Physics, Harvard University, Cambridge, Mass.
- 1963-1965      Sanitary Engineer, U.S. Public Health Service, Division of Water Supply and Pollution Control, Denver, Colorado.

### **Teaching Experience--Courses Taught**

Computers in Civil Engineering  
Economics and Infrastructure Planning  
Engineering the Built Environment  
Environmental Governance  
Environmental Planning Methods  
Environmental Impact Assessment  
Environmental and Social Impacts of Large Dams  
Environmental Management: an International Perspective  
Environmental Policy Design and Implementation  
Environmental Risk Assessment  
Environmentally Sustainable Cities  
Expert Systems in Civil Engineering  
Expert Systems in Environmental and Water Resources Management  
Industry and Environmental Policy  
Quantitative Planning Techniques  
Strategic Environmental Assessment  
Sustainable Water Resources Development  
Water Resources Development in Italy  
Water Resources Economics and Institutions  
Water Resources Engineering  
Water Resources Planning  
Water Resources Systems Analysis

### **Honors and Awards**

Lillian and Thomas B. Rhodes Prize for Excellence in Undergraduate Teaching, 1996  
Eugene L. Grant Award for Excellence in Teaching, 2005  
Graduate Fellowships from the U.S. Public Health Service and the Federal Water Pollution Control Administration, 1965-68  
Resources for the Future Natural Resources Fellowship, 1968-69  
Fulbright-Hays Research Grant, Rome, Italy, January-August, 1979  
Fulbright-Hays Research Grant, Paris, France, September, 1987-August, 1988

Fellowship from the French Ministry of Foreign Affairs for a scientific exchange visit  
("Stage scientifique de haut niveau") January-August, 1988  
Lectureship from the National Science Council of the Republic of China, July, 1991  
Tau Beta Pi (Engineering)  
Chi Epsilon (Civil Engineering)  
Delta Omega (Public Health)  
Sigma Xi (Research)

### **Professional Affiliations**

Member, Editorial Policy Committee, *Environmental Impact Assessment Review* (1990-present)  
Member, Editorial Board, *Clean Technologies and Environmental Policy Journal* (2001-present)  
Member, International Advisory Committee, The Chinese University of Hong Kong Centre of Strategic Environmental Assessment for China  
Member, International Association for Impact Assessment  
Member, Chief of Engineers Environmental Advisory Board, U.S. Army Corps of Engineers (1996-1998)  
Member, American Society of Civil Engineers, Technical Council on Computer Practices, Committee on Expert Systems and Artificial Intelligence (1986-1992)  
Member, American Society of Civil Engineers, Environmental Impact Analysis Research Council (1977-87)  
Member, Committee to Review the Metropolitan Washington Area Water Supply Study, Water Science and Technology Board, National Research Council (1981-83).  
Member, Board of Advisors, Environmental Intern Program/California, San Francisco (1985-87)  
Member, Faculty Steering Committee, Haas Center for Public Service, Stanford University (1989-2004)  
Member, Academic Advisory Committee, John Gardner Center for Youth and Their Communities, Stanford University (2000-present)

### **Books**

*Environmental Planning and Decision Making*, John Wiley & Sons, N.Y., 1984.  
*Implementing Environmental Policy in China* (co-authored with B. J. Sinkule), Praeger Publishers, Westport, CT, 1995.  
*Environmental Regulation and Impact Assessment*, John Wiley & Sons, N.Y., 1997.  
*Environmental Regulation in China: Institutions, Enforcement, and Compliance* (co-authored with X. Ma), Rowman & Littlefield Publishers, Inc., Boulder, CO, 2000.  
*Ecologia dell'Impatto Ambientale* (Ecology of Environmental Impacts, co-authored with V. Bettini and L. W. Canter), UTET Libreria, Turin, Italy, 2002.

## **Contributions to Professional Journals**

1. Coffey, P. J. and L. Ortolano, "Economic Framework for Salinity Control Projects," *J. American Water Works Association*, Vol.61, No.5 (1969), pp. 237-241.
2. Kuiper, J. and L. Ortolano, "A Dynamic Programming--Simulation Strategy for the Capacity Expansion of Hydro-Electric Power Systems," *Water Resources Research*, Vol.9, No.6 (December, 1973), pp. 1497-1510.
3. Ortolano, L., "Issues in Water Resources Impact Assessment," *Proc. American Society of Civil Engineers, J. of the Hydraulics Division*, Vol.100, No.HY 1 (January, 1974), pp. 173-187.
4. Ortolano, L., and F. A. Smith, "Cost of Thermal Effluent Standards for Power Plants," *Proc. American Society of Civil Engineers, J. of the Power Division*, Vol. 100, No. PO 1 (July, 1974), pp. 15-31.
5. Ortolano, L., "A Process for Federal Water Planning at the Field Level," *Water Resources Bulletin*, Vol.10, No.4 (August, 1974), pp. 766-778.
6. Wagner, T. P., and L. Ortolano, "Analyses of New Techniques for Public Involvement in Water Planning," *Water Resources Bulletin*, Vol.11, No.2 (April, 1975), pp. 329-344.
7. Randolph, J. and L. Ortolano, "Effect of NEPA on the Corps of Engineers' New Melones Project," *Columbia Journal of Environmental Law*, Vol.1, No.2, (Spring, 1975), pp. 233-273.
8. Ortolano, L., "Water Plan Ranking and the Public Interest," *Proc. American Society of Civil Engineers, J. of the Water Resources Planning and Management Division*, Vol.102, No.WR1 (April, 1976), pp. 35-48.
9. Randolph, L. and L. Ortolano, "NEPA and the Consideration of Alternatives: A Case Study of Corps of Engineers' Planning for Carmel River," *Environmental Affairs*, Vol.5, No.2 (Spring, 1976), pp. 213-253.
10. Broderson, R. M. and L. Ortolano, "Use of an EIR Process in Controlling Urban Sprawl," *Proc. American Society of Civil Engineers, J. of the Urban Planning and Development Division*, Vol.102, No.UP 1 (August, 1976), pp. 199-212.
11. Hill, W. W. and L. Ortolano, "Effects of NEPA's Review and Comment Process on Water Resources Planning: Results of a Survey of Planners in the Corps of Engineers and Soil Conservation Service," *Water Resources Research*, Vol.12, No.6 (December, 1976), pp. 1093-1100.

12. Ortolano, L. and T. P. Wagner, "Field Evaluation of Some Public Involvement Techniques," *Water Resources Bulletin*, Vol.13, No.6 (December, 1977), pp. 1131-1139.
13. Hill, W. W. and L. Ortolano, "NEPA's Effect on the Consideration of Alternatives: A Crucial Test," *Natural Resources Journal*, Vol. 18, No. 2, (April, 1978), pp. 285-311; reprinted in Strom, F. A. (ed.), *Land Use and Environment Law Review - 1979*, Clark Boardman Co., Ltd., New York, 1979, pp. 21-47.
14. Ortolano, L., "Environmental Assessments in Water Resources Planning," *Water Supply and Management Journal*, Vol.2, No.2 (Summer, 1978), pp. 159-176; reprinted in Golubev, G. and A. K. Biswas (eds.), *Interregional Water Transfers*, Pergamon Press, 1978.
15. Jenkins, B. R. and L. Ortolano, "Environmental Specialists in Water Agencies," *Proc. American Society of Civil Engineers, J. of the Water Resources Planning and Management Division*, Vol.104, No.WR1 (November, 1978), pp. 61-74.
16. Ortolano, L., "Water Planning and the Environment: 1776-1976," *Proc. American Society of Civil Engineers, J. of the Water Resources Planning and Management Division*, Vol.105, No.WR1 (March, 1979), pp. 65-78.
17. Hall, G. C. and L. Ortolano, "Modeling the Distribution of Water in Santa Clara County, California," *J. of the American Water Works Association*, Vol.71, No.5 (May, 1979), pp. 242-248.
18. Brown, S. M., F. L. Thompson, D. L. Hessel, L. Ortolano, and W. S. Hood, "Conflicts in Attaining National Goals for Both Water Quality and Energy Production," *Water Resources Bulletin*, Vol.15, No.5 (October, 1979), pp. 1236-1249.
19. Meersman, J. J. and L. Ortolano, "Environmental Considerations in Highway Planning," *Proc. American Society of Civil Engineers, J. of the Transportation Engineering Division*, Vol.106, No.TE 4 (July, 1980), pp. 471-483; for discussion by W. R. Green, see Vol.107, No.TE2 (March, 1981), pp. 253-254.
20. Price, J. E. and L. Ortolano, "Bureau of Reclamation Planning: Environmental Factors," *Proc. American Society of Civil Engineers, J. of the Water Resources Planning and Management Division*, Vol.107, No.WR 1 (March, 1981), pp. 27-43.
21. Brendecke, C. and L. Ortolano, "Environmental Considerations in Corps Planning," *Water Resources Bulletin*, Vol.17, No.2 (April, 1981), pp. 248-254.
22. Rubinstein, J. and L. Ortolano, "Water Conservation and Capacity Expansion," *Journal of Water Resources Planning and Management*, Vol.110, No.2 (April, 1984), pp. 220-237.

23. Cavalli-Sforza, V. and L. Ortolano, "Delphi Forecasts of Land Use - Transportation Interactions," *Journal of Transportation Engineering*, Vol.110, No.3 (May, 1984), pp.324-339.
24. Ortolano, L., "Estimating Air Quality Impacts," *Environmental Impact Assessment Review*, Vol.5, No.1 (March, 1985), pp. 9-35.
25. Contant, C. K. and L. Ortolano, "Evaluating a Cumulative Impact Assessment Approach," *Water Resources Research*, Vol.21, No.9 (September, 1985), pp. 1313-1318.
26. Abracosa, R. and L. Ortolano, "Evaluation of the Philippine Environmental Impact Statement System: 1977-1985," *Philippine Planning Journal*, Vol.18, No.1, (October, 1986), pp. 1-29.
27. Ortolano, L. and C. D. Perman, "Expert Systems: An Introduction for Planners," *Journal of the American Planning Association*, Vol.53, No.1 (Winter, 1987), pp.98-103.
28. Ortolano, L. and C. D. Perman, "Software for Expert Systems Development," *Journal of Computing in Civil Engineering*, Vol.1, No.4 (October, 1987), pp. 225-240.
29. Ortolano, L. and A. C. Steinemann, "New Expert Systems in Environmental Engineering," *Journal of Computing in Civil Engineering*, Vol.1, No.4 (October, 1987), pp. 298-302.
30. Ortolano, L., B. Jenkins and R. Abracosa, "Speculations on When and Why EIA is Effective," *Environmental Impact Assessment Review*, Vol.7, No.4 (December, 1987), pp. 285-292.
31. Abracosa, R. and L. Ortolano, "Environmental Impact Assessment in the Philippines: 1977-1985," *Environmental Impact Assessment Review*, Vol.7, No.4 (December, 1987), pp. 293-310.
32. Abracosa, R. and L. Ortolano, "Lessons from EIA for Bicol River Development in the Philippines," *Journal of Water Resources Planning and Management*, Vol.114, No.5 (September, 1988), pp. 517-530.
33. Abracosa, R. and L. Ortolano, "Public Involvement and EIA: The Case of the Binongan Hydroelectric Project in the Philippines," *International Journal of Water Resources Development*, Vol.4, No.3 (September, 1988), pp. 176-183.
34. Lannuzel, P. and L. Ortolano, "Evaluation of Heuristic Program for Scheduling Treatment Plant Pumps," *Journal of Water Resources Planning and Management*, Vol.15, No.4 (July, 1989), pp. 457-471.

35. Ortolano, L., G. Le Coeur, and R. MacGilchrist, "Expert System for Sewer Network Maintenance: Validation Issues," *Journal of Computing in Civil Engineering*, Vol.4, No.1 (January, 1990), pp. 37-54.
36. Hirji, R. and L. Ortolano, "EIA Effectiveness and Mechanisms of Control: Case Studies of Water Resources Development in Kenya," *The International Journal of Water Resources Development*, Vol.7, No.3 (September, 1991), pp. 154-167.
37. Hirji, R. and L. Ortolano, "Strategies for Managing Uncertainties Imposed by EIA: Analysis of a Kenyan River Development Authority," *Environmental Impact Assessment Review*, Vol.11, No.3 (September, 1991), pp. 203-230.
38. Hirji, R. and L. Ortolano, "Strategies Used by Kenya's National Environmental Secretariat to Promote Environmental Protection," *The Environmental Professional*, Vol.13, No.2 (August, 1991), pp. 154-165.
39. Hirji, R. and L. Ortolano, "Controlling Industrial Pollution Using EIA: Case Study of a Kenyan Tannery Project," *The Environmentalist*, Vol.11, No.4 (Winter, 1991), pp.253-266.
40. Ortolano, L., "Research on an Environmental Quality Evaluation System for Metropolitan Areas," in (Chinese) *China Environmental Protection Journal*, Vol.12 (April, 1992), pp. 109-113.
41. Ortolano, L., "Controls on Project Proponents and Environmental Impact Assessment Effectiveness," *The Environmental Professional*, Vol.15, No.4 (December, 1993), pp. 352-363.
42. Rozelle, S., X. Ma and L. Ortolano, "Industrial Wastewater Control in Chinese Cities: Determinants of Success in Environmental Policy," *Natural Resource Modeling*, Vol.7, No.4 (Fall, 1993), pp. 353-378.
43. Srinivasan, S. and L. Ortolano, "Factors Influencing Adoption of Automation of Wastewater Treatment Plants in Japan," *Journal of Technology Transfer*, Vol.19, No.1 (1994), pp. 33-42.
44. Sinkule, B. J. and L. Ortolano, "Pollutant Discharge Fees in China: Case Study of a Factory in Guandong Province," *Asian Journal of Environmental Management*, Vol.2, No.2 (November, 1994), pp. 135-141.
45. Shepherd, A. and L. Ortolano, "Critiquing Expert Systems for Planning and Management," *Computers, Environment and Urban Systems*, Vol.18, No.5, (1994), pp. 305-314.
46. Ortolano, L. and A. Shepherd, "Environmental Impact Assessment: Challenges and Opportunities," *Impact Assessment*, Vol.13, No.1 (Spring, 1995), pp. 3-30.

47. Shepherd, A. and L. Ortolano, "Water Supply System Operations: A Critiquing Expert System Approach," *Journal of Water Resources Planning and Management*, Vol.122, No.5 (Sept./Oct., 1996), pp. 348-355.
48. Shepherd, A. and L. Ortolano, "Strategic Environmental Assessment for Sustainable Urban Development," *Environmental Impact Assessment Review*, Vol.16, Nos.4-6 (July-November, 1996), pp. 321-335.
49. Shepherd, A. and L. Ortolano, "Organizational Change and Environmental Impact Assessment at the Electricity Generating Authority of Thailand: 1972-1988," *Environmental Impact Assessment Review*, Vol.17, No.5 (September, 1997), pp.329-356.
50. Gelting, R. J. and L. Ortolano, "A Model Describing Performance of Rural Drinking Water Systems in Honduras," *International Journal of Water Resources Development*, Vol.14, No.2 (June, 1998), pp.199-215.
51. Warren, K. A. and L. Ortolano, "Pollution Prevention in China's Electroplating Industry," *Environmental Engineering and Policy*, Vol.1, No.1 (July, 1998), pp.11-23.
52. Ortolano, L. Kao, K. C. and K. A. Warren (eds.), *Environmental Impact Assessment Review, Special Issue on Cleaner Production in China*, Vol.19 (1999).
53. Ortolano, L., K. K. Cushing, and K. A. Warren, "Introduction to Cleaner Production in China," *Environmental Impact Assessment Review*, Vol.19, No.6 (1999), pp. 431-436.
54. Zhao, J. and L. Ortolano, "Implementing the Montreal Protocol in China: Use of Cleaner Production in Two Industrial Sectors," *Environmental Impact Assessment Review*, Vol.19, No.6 (1999), pp. 499-519.
55. Warren, K. A. and L. Ortolano, "Pollution Prevention Incentives and Responses in Chinese Firms," *Environmental Impact Assessment Review*, Vol.19, No.6 (1999), pp.521-540.
56. Browder, G. and L. Ortolano, "The Evolution of an International Water Resources Management Regime in the Mekong River Basin," *Natural Resources Journal*, Vol.40, No.3 (2000), pp. 499-531.
57. Carter, N. and L. Ortolano, "Water and Wastewater in the U.S.–Mexico Border Region: A Perspective on BECC and NADBank," *International Journal of Water Resources Development*, Vol.16, No.4 (2000), pp. 691-708.
58. Ebrahim, A. and L. Ortolano, "Learning Processes in Development Planning: A Theoretical Overview and Case Study," *Journal of Planning Education and Research*, Vol.20, No.4 (2001), pp.448-463.

59. Sanchez-Triana, E. and L. Ortolano, "Organizational Learning and Environmental Impact Assessment at Colombia's Cauca Valley Corporation," *Environmental Impact Assessment Review*, Vol.21, No.3 (2001), pp. 223-239.
60. Guikema, S., L. Ortolano, S. B. Ohshita and P. Collins, "Using Simulation to Teach Negotiation Processes to Environmental Engineers," *Journal of Engineering Education*, (October, 2001), pp. 631-635.
61. Ohshita, S. B. and L. Ortolano, "The Promise and Pitfalls of Japanese Cleaner Coal Technology Transfer to China," *International Journal of Technology Transfer and Commercialization*, Vol.1, Nos.1/2 (2002), pp. 56-81.
62. Ortolano, L. and K. K. Cushing, "Grand Coulee Dam Seventy Years Later: What Can We Learn?" *International Journal of Water Resources Development*, Vol.18, No.3 (2002), pp.373-390.
63. Zhao, J. and L. Ortolano, "The Chinese Government's Role in Implementing International Environmental Agreements: the Case of the Montreal Protocol," *The China Quarterly*, No. 175, pp. 708-725 (2003).
64. He, H., L. Ortolano and H. Shi, "Cleaner Production Programme in Taiyuan City, China," *International Journal of Technology Transfer and Commercialization*, Vol.2, No.1 (2003), pp.65-88.
65. Ohshita, S. B. and L. Ortolano, "From Demonstration to Diffusion: the Gap in Japan's Environmental Technology Cooperation with China," *International Journal of Technology Transfer and Cooperation*, Vol.2, No.4 (2003), pp.351-368.
66. Carter, N. and L. Ortolano, "Implementing Government Assistance Programs for Water and Sewer Systems in Texas Colonias," *International Journal of Water Resources Development*, Vol.20, No.4, (December, 2004), pp.553-564.
67. He, H. and L. Ortolano, 2005, "Transferring Cleaner Production Technologies to Industries in Changzhou and Nantong, China," *International Journal of Environmental Technology and Management*, Vol.5, Nos.2/3, pp. 276-299.
68. Ernesto Sánchez Triana and L. Ortolano, 2005, "Influence of Organizational Learning on Water Pollution Control in Colombia's Cauca Valley," *International Journal of Water Resources Development*, Vol.21, No.3, pp.493-508.
69. Ohshita, S. and L. Ortolano, 2006, Effects of Economic and Environmental Reform on Diffusion of Cleaner Coal Technology in China, *Development and Change*, Vol. 37, No. 1, pp. 75-98.
70. He, H. and L. Ortolano, 2006, "Implementing Cleaner Production Programs in Changzhou and Nantong, Jiangsu," *Development and Change*, Vol. 37, No.1, January 2006, pp. 99-120.

71. Nance, E. and L. Ortolano, 2007, "Community Participation in Urban Sanitation: Experiences in Northeastern Brazil," *Journal of Planning Education and Research*, Vol. 26, No. 3, pp.284-300.
72. Warwick, M. and L. Ortolano, 2007, "Benefits and Costs of Shanghai's Environmental Citizen Complaints System," *China Information* Vol. 21, No.2, pp. 237-68.
73. Rutherford, D. and L. Ortolano, L, 2008, "Air Quality Impacts of Tokyo's On-Road Diesel Emissions Regulations," *Transportation Research Part D: Transport and Environment*. Vol. 13, No.4, pp.239-254.
74. Chang, C. and L. Ortolano, 2008, "Analyzing Beijing's In-Use Vehicle Emissions Test Results Using Logistic Regression," *Environmental Science and Technology*. Vol. 42, No. 19, pp 7309–7314.
75. Ru, Jiang, R. and Leonard Ortolano, 2009. "Development of Citizen-Organized Environmental NGOs in China." *Voluntas: International Journal of Voluntary and Nonprofit* 20: 141-168.
76. Ortolano, L. Baumont, S. and G. Puz, 2009, Implementing Programs to Reduce Nitrate Pollution from Agriculture in Brittany, France, *International Journal of Water Resources Development*. 25 (4):641-656.
77. Millard-Ball, A. and L. Ortolano, 2010, Constructing Carbon Offsets: The Obstacles to Quantifying Emission Reductions, *Energy Policy*. Vol. 38, No. 1, pp. 533-546.
78. Zhang, X., L. Ortolano, and Z. Lv, 2010, "Agency Empowerment through the Administrative Litigation Law: Court Enforcement of Pollution Levies in Hubei Province, China," *The China Quarterly*, No. 202, pp. 307-326.
79. Zhang, X. and L. Ortolano, 2010, "Judicial Review of Environmental Administrative Decisions: Has It Changed Agency Behavior?" *The China Journal*, No. 64, pp. 97-119.
80. Zhao, X. and L. Ortolano, 2010, "Implementing China's National Energy Conservation Policies at State-Owned Electric Power Generation Plants," *Energy Policy*, Vol. 38, Issue 10, pp. 6293-6306.
81. Schaffer- Boudet, H. and L. Ortolano, 2010, A Tale of Two Sitings: Contentious Politics in Liquefied Natural Gas Facility Siting in California," *Journal of Planning Education and Research*, Vol. 30, No. 1, pp. 5 –21.

## **Contributions to Books**

1. Ortolano, L., "Artificial Aeration as a Substitute for Wastewater Treatment," Chapter 7, in Dorfman, R., et al., *Models for Managing Regional Water Quality*, Harvard University Press, Cambridge, Massachusetts (1973), pp. 263-311.
2. Ortolano, L., "Integrating Environmental Assessments into Infrastructure Planning" in Rossini, F. A. and A. L. Porter (eds.), *Integrated Impact Assessment*, Westview Press, Boulder, Colorado (1983), pp.118-134.
3. Ortolano, L., "Accounting for Environmental Quality in Water Resources Planning," in Cheremisinoff, P. N., N. P. Cheremisinoff, and S. L. Cheng (eds.), *Civil Engineering Practice, Vol. 5, Water Resources/Environmental*, Technomic Publishing, Lancaster, Pennsylvania (1988), pp. 159-178.
4. Ortolano, L., "Predicting Impacts of Infrastructure on Land Use," in Stein, J. M. (ed.), *Public Infrastructure Planning and Management*, Sage publications, Inc., Beverly Hills, California (1988), pp. 189-207.
5. Ortolano, L. and C. D. Perman, L. L. Wiggins, and Y. Lee, "A Planner's Introduction to Expert Systems," in Klosterman, R. E. (ed.), *A Planners Review of PC Software and Technology*, Planning Advisory Service Report Nos. 414/415, American Planning Association, Chicago, IL (1988), pp. 91-102.
6. Abracosa, R. and L. Ortolano, "Environmental Impact Assessment in the Philippines: A Case Study of the San Roque Water Resources Development Project," in Bartlett, R. (ed.), *Policy Through Impact Assessment*, Greenwood Press, Westport, Connecticut (1989), pp. 65-72.
7. Ortolano, L. and C. D. Perman, "Applications to Urban Planning: An Overview," Chapter One in Kim, T. J., L. L. Wiggins, and J. R. Wright, *Expert Systems: Applications to Urban Planning*, Springer-Verlag, New York (1990), pp. 3-13.
8. Ortolano, L., "Formulating and Evaluating Alternative Solutions to a Flooding Problem," in Marsh, W. M., *Landscape Planning: Environmental Applications*, 2nd edition, John Wiley & Sons, New York (1991), pp. 156-158.
9. Perman, C. D. and L. Ortolano, "Frames and Rules in an Expert System for Diagnosing Wastewater Treatment Plant Problems," in Allen, R. H. (ed.), *Expert Systems in Civil Engineering: Knowledge Representation*. American Society of Civil Engineers, New York (1992), pp. 176-213.
10. Perman, C. D. and L. Ortolano, "A Diagnostic Aid for Wastewater Treatment Plants," in Arciszewski, T. and L. Rossman (eds.), *Knowledge Acquisition in Civil Engineering*, American Society of Civil Engineers, New York (1992), pp. 86-104.

11. Perman, C. D. and L. Ortolano, "Testing a Prototype Expert System for Diagnosing Wastewater Treatment Plant Operating Problems," in Wright, J. R., L. L. Wiggins, T.J. Kim, and R. Jain, *Expert Systems in Environmental Planning*, Springer-Verlag, New York (1993), pp. 275-298.
12. Ortolano, L. and A. Shepherd, 1995, "Environmental Impact Assessment" in Vanclay, F. and D. Bronstein (eds.), *Environmental and Social Impact Assessment*, Wiley, Chichester, U. K., pp. 1-30.
13. Casas, W., L. Ortolano and E. Sánchez Triana, "Modelos de Calidad del Aire" (Air Quality Models), in Sánchez Triana, E. (ed.), *Licencias Ambientales: Evaluación de Impacto Ambiental: Instrumento de Planificación (Environmental Licences: Environmental Impact Assessment as a Planning Instrument)*, Tercer Mundo Editores, Bogota, Colombia (1995), pp. 79-110.
14. Ortolano, L., 2000, "U.S. Urban Environmental Planning," in Rodwin, L. and B. Sanyal (eds.), *The Profession of City Planning: Changes, Images and Challenges 1950 --2000*, Chapter 17, CUPR Press, Rutgers, NJ.
15. Carter, N. and L. Ortolano, 2002, "Linking Trade and Environment: Impact of Two NAFTA Institutions on Border Water Infrastructure," in Fernandez, L. and R. Carson (eds.), *Both Sides of the Border: Transboundary Environmental Management Issues Facing Mexico and the United States*, Kluwer Academic Publishers, pp. 29-52.
16. Ortolano, L. and C. L. May, 2004, "Assessing Efforts to Mitigate Grand Coulee Dam's Effects on Fisheries," in E.J.M.M. Arts and A. Morrison-Saunders, *EIA Follow-up: Beyond the Decision*, Earthscan Publishers.
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