

Charles M. Burt, Ph.D., P.E., D.WRE

Profession

- Professor
BioResource and Agricultural Engineering Dept., Cal Poly
and
- Chairman of the Board
Irrigation Training and Research Center (ITRC)
California Polytechnic State Univ. (Cal Poly)
San Luis Obispo, CA 93407
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Specializations:

- On-farm irrigation system design, management, and evaluation
 - Control strategies and modernization for water delivery systems
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Education

- Utah State University, Logan Utah. Ph.D. Engineering (1983)
 - Utah State University, Logan Utah. M.S. Agricultural and Irrigation Engineering (1975)
 - Cal Poly. State Univ., San Luis Obispo. B.S. (Honors) Soil Science (1973)
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Organizations/Awards

Organizations, etc.:

- American Society of Agricultural and Biological Engineers
- American Society of Civil Engineers; Water Resources Engineering Div.
Previous chair on numerous committees.
- The Irrigation Association - Previous chair of numerous committees
- California Irrigation Institute
- United States Committee on Irrigation and Drainage (USCID)
- Phi Kappa Phi
- Co-founder of Friends of the Central Highlands (non-profit organization to assist Montagnards in Vietnam)
- Editorial Board of Irrigation and Drainage Systems (Kluwer Academic Publishers, The Netherlands)

Awards/Honors:

- Bronze Star Medal for Heroism; ARCOM for Heroism; ARCOM for Meritorious Service (U.S. Army)
 - Commended in Calif. Legislature Resolution No. 365 for international training work (1982).
 - Recipient of National Water and Energy Conservation Award by The Irrigation Association (1986)
 - Outstanding Agricultural Engineer award for the ASAE Pacific Region (1987)
 - 1997 Person of the Year - The Irrigation Association
 - 1999 Irrigation Person of the Year – Calif. Irrigation Institute
 - Sunkist Agriculture Faculty Award (1996)
 - ASCE Journal of I&D Engr. “Best Discussion Award” for 2000
 - Plant Sciences Outstanding Faculty Award (2001)
 - Royce J. Tipton Award (2002) from the Environmental and Water Resources Institute, Amer. Society of Civil Engr. (Highest ASCE irrigation and drainage honor)
 - First recipient of the Distinguished Research, Creative Activity and Professional Development Award, Cal Poly (2004)
 - Diplomate, Water Resources Engineer (D.WRE); American Academy of Water Resources Engineers (AAWRE) (2005)
 - Merriam Irrigation Improvement Award. US Committee on Irrigation and Drainage (USCID) (2005)
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Registrations &**Certifications**

- Registered Professional Engineer:
- Civil (California RCE 28995, July 1978)
 - Agricultural (California AG 430, March 1979)
 - Irrigation (Utah 5662, August 1981)
- Certified Irrigation Designer through The Irrigation Assoc.:
- Agricultural Drip Irrigation
 - Agricultural Surface Irrigation
 - Agricultural Sprinkler Irrigation
 - Agricultural Irrigation Manager

Languages

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| English | First Language |
| Spanish | Reasonable reading and speaking |

Experience/**Qualifications**

- 1978-Present:
- Professor, BioResource and Agricultural Engr. Dept., California Polytechnic State University, San Luis Obispo, CA 93407.
 - Irrigation Training and Research Center, California Polytechnic State University, San Luis Obispo, CA 93407 (Founder/Director/Chair 1989 - 2000; Chairman of the Board 2000+)
- Early Employment Experiences:
- Farm worker during high school and college in California.
 - Spec. 5. U.S. Army (1967-1970). 3 tours with 4th Infantry Division in Republic of South Vietnam Combat demolition specialist, helicopter rappelling team, S-5 team, Montagnard training, recon. patrols.
 - Keller Engineering (Logan, Utah). Irrigation System Designer. Designed several large drip systems in the USSR and Iran. Field investigations in Iran (75-76).
 - Wren-Oneal Co. (Fresno, CA). Irrigation System Designer. Designed, sold, and installed drip, sprinkler, and surface systems for a major agricultural irrigation company of California (76-78).
 - JM Lord, Inc. (Fresno, CA) Chief engineer and minor partner (1 year leave from Cal Poly). Irrig. design and project planning (81-82)
- International Irrigation & Drainage Work
- Work on private and international donor projects in Canada, Mexico, El Salvador, Honduras, Costa Rica, Colombia, Dominican Republic, Mali, Spain, Portugal, Morocco, Tunisia, India, Iran, Pakistan, Thailand, Vietnam, France, Saudi Arabia, Taiwan, Philippines, China
- Present Cal Poly ITRC Project Examples
- Automation plans, SCADA, and follow-through for numerous irrigation districts
 - Water balance and water rights studies for irrigation districts.
 - Preparation of modernization guidelines for various irrig. districts in California, Nevada, Arizona, Oregon, Colorado, and Washington
 - Technical assistance to several National Wildlife Refuges for improved water management.
 - Variable speed electric drive analysis and applications
 - Technical assistance for a large secondary waste water treatment project of irrigation water disposal in southern California.
- Recent Private Consulting
- Expert witness on various irrigation matters.
- Other:
- Active participant in various organizations (ASCE, IA, USCID) to organize specialty conferences and sessions at regular conferences. For example, service as chairman of 7/02 USCID conference held in SLO; chairman of 11/05 USCID conference held in Portland.

PUBLICATIONS, PAPERS, AND PROCEEDINGS

- Burt, C.M. 1975. Crop Production Functions Associated with Land Grading. Unpublished M.S. Thesis. Utah State University Library. Logan, Utah.
- Burt, C.M., G. Stringham, and D. James. 1975. Increasing Yields on Recently Graded Land Through Proper Phosphate Fertilization. Spring Edition 1975. Utah Science. Reprinted in Nov./Dec. 1976 issue of Irrigation Age.
- Keller, J. and C.M. Burt. April 1975. Recommendations for Trickle and Sprinkle Irrigation in Pakistan. USAID/Colorado State University.
- Burt, C.M. and J. Keller. 1976. Very Low Pressure Sprinkler Irrigation. ASAE Paper No. 76-2517., and Utah State University 211(d)-12 bulletin. Dept. of Agricultural and Irrigation Engineering.
- Burt, C.M. and T. Ruehr. 1979. Water Penetration Problems with Drip Irrigation. ASAE Paper No. 79-2572. Presented at the winter meeting of the ASAE in New Orleans.
- Burt, C.M. January 1980. Practical Efficiencies of Drip Irrigation. Presented to the annual meeting of the California Irrigation Institute at Sacramento, Calif.
- Burt, C.M. February 1980. Reuse (Tailwater Recovery) Systems. Proceedings of the 1980 Technical Conference, held at Houston, Texas. The Irrigation Association.
- Lord, J.M., C.M. Burt, and Thompson. October 1980. Selection of Irrigation Method. Proceedings of the Second National Irrigation Symposium, held at Lincoln, Nebraska. ASAE.
- Merriam, J., M. Shearer, and C.M. Burt. 1980. Evaluating Irrigation Systems and Practices. Chapter 17 in the ASAE Monograph No. 3. M.E. Jensen, editor. pp. 721-762.
- Burt, C.M. December 1980. Proceedings of the IA Short Course on Surface Irrigation. 3-day short course held at Cal Poly State University. The Irrigation Association. Chairman and speaker.
- Burt, C.M. February 1981. Achieving Finger Tip Control of Surface Irrigation Flows. Proceedings of the 1981 Technical Conference, held at Salt Lake City, Utah. The Irrigation Association.
- Burt, C.M. April 1981. Improving Surface Irrigation Efficiencies. Presented at the Western Regional Irrigation Association Meeting, held at Fresno, Calif.
- Burt, C.M., et al. September 1981. Distribution System Improvement to Facilitate Water Delivery. A report by JM Lord, Inc. and the Ag. Division, OWC, Calif. Dept. of Water Resources.
- Burt, C.M. and J.M. Lord. December 1981. Demand Theory and Application in Irrigation District Operation. Proceedings of the ASAE Specialty Conference on Irrigation Scheduling, held at Chicago, Ill.
- Burt, C.M. January 1982. Flexible Scheduling and Effect on Water Supply Agencies and Farms. Presented to the annual meeting of the California Irrigation Institute, held at Fresno, Calif.
- Burt, C.M. 1982. Rapid Evaluation of Furrow Irrigation Efficiencies. ASAE Paper 82-2537. Presented at the winter meeting of the ASAE in Chicago, Illinois.
- Burt, C.M. 1983. Regulation of Sloping Canals by Automatic Downstream Control. Ph.D. dissertation. College of Engineering. Utah State University. Logan, Utah. University Press. Ann Arbor, Michigan.
- Burt, C.M. January 1983. Designing Cost Effective Irrigation Systems. Proceedings of the annual meeting of the California Irrigation Institute, held at Sacramento, Calif.

- Burt, C.M. March 1983. Tendencias Hacia Una Irrigacion Eficiente Con Poca Energia. Proceedings of the AGUA EXPO '83 Technical Conference held at Acapulco, Mexico.
- Burt, C.M. 1983. Reclaiming and Irrigating Desert Soils, A Guide for Wheat Production and Center Pivot Irrigation in Saudi Arabia. 38 p. Harmon International. Davis, Calif.
- Burt, C.M. September 1983. Proceedings of the IA Short Course on Advanced Surface Irrigation Design. 3-day short course held at Cal Poly. The Irrigation Association. Chairman and speaker.
- Burt, C.M. December 1983. Aspects of Efficiency. Proceedings of the 1983 Technical Conference, held at Denver, Colorado. The Irrigation Association.
- Burt, C.M. 1983. Regulation of Sloping Canals by Automatic Downstream Control. 1ASAE Paper No. 83-2582. Presented at the winter meeting of ASAE in Chicago, Illinois.
- Burt, C.M. January 1984. On Farm Water Management - By Design. Presented to the annual meeting of the California Irrigation Institute in Fresno, California.
- Burt, C.M. 1984. Evaluating the Efficiency of Irrigation Systems - What Are Our Needs? Presented to the annual meeting of the SCSA in Sacramento, California.
- Burt, C.M. March 1984. Proceedings of the IA Short Course on Advanced Drip Design. 3-day short course held at Cal Poly. The Irrigation Association. Chairman and speaker.
- Burt, C.M. 1984. Canal Automation for Rapid Demand Deliveries (CARDD). Proceedings of the ASCE Irrigation and Drainage Specialty Conference Water Today and Tomorrow, held at Flagstaff, AZ. pp. 502-509.
- Burt, C.M., R. Walker, and S.W. Styles. 1985. Irrigation System Evaluation Manual - 1985 -. A comprehensive, documented software package for evaluation of agricultural irrigation systems. Funded by the OWC, Calif. DWR. Pub. by Dept. of Agricultural Engineering, Cal Poly, San Luis Obispo, Calif.
- Burt, C.M. October 1985. Surge Flow Irrigation Is a Real Water Saver. California Farmer. October 5 issue. pg. 19.
- Burt, C.M., R. Walker, and S.W. Styles. 1985. Evaluation of Micro Irrigation Systems. Proceedings of the Third Int. Drip/Trickle Irrigation Congress, held in Fresno, Calif. pp. 268-273.
- Bianchi, M., C.M. Burt and T. Ruehr. 1985. Drip Fertilization Practices and Water Permeability. Proceedings of the Third Int. Drip/Trickle Irrigation Congress, held in Fresno, Calif. pp. 357-364.
- Burt, C.M. and C. Hash. 1985. Sulfur Dioxide Injection for Drip Irrigation. Proceedings of the Third Int. Drip/Trickle Irrigation Congress, held in Fresno, Calif. pp. 712-717.
- Burt, C.M. and G. Kah. 1985. Landscape Water Auditor Training Manual. Published by the Office of Water Conservation, Calif. Dept. of Water Resources.
- Burt, C.M. 1986. Controlled Volume Design For Surface Irrigation. ASAE Paper No. 86-2085. Presented at the summer meeting of the ASAE in San Luis Obispo, Calif.
- Ayers, J., Jonas, and C.M. Burt. 1986. Automation For Downstream Control On Small Irrigation Canals. ASAE Paper No. 86-2078. Presented at the summer meeting of the ASAE in San Luis Obispo, Calif.
- Burt, C.M. 1986. Irrigation Evaluations. Proceedings of the 1986 Annual Technical Conference of The Irrigation Association, held at San Antonio, Texas.

- Burt, C.M. 1987. Overview of Canal Control Concepts. Planning, Operation, Rehabilitation and Automation of Irrigation Water Delivery Systems. Proceedings of a Symposium in Portland sponsored by the I&D Div. of ASCE. Darell Zimbelman, Editor. pp. 81-109.
- Burt, C.M. 1987. Soil-Plant-Water Relationships. Proceedings of the 1987 Annual Technical Conference of The Irrigation Association, held at Orlando, Florida.
- Burt, C.M. 1987. Air Vents and Pressure Relief Devices. Presented to the Surface Irrigation Division of The Irrigation Association at the annual conference in Orlando, Florida.
- Burt, C.M. 1987. Water Delivery Automation and Time-Of-Use Rates. Presented to the ACWA (Assoc. of Calif. Water Agencies) annual conference in Monterey, Calif.
- Burt, C.M. 1988. Irrigation District Water Conservation. Presented to the 1988 Water Users' Conference of the U.S. Bureau of Reclamation Mid-Pacific Region in Visalia, Calif.
- Burt, C.M. 1988. Water Delivery Automation. Presentation of a special session for the annual meeting of the California Irrigation Institute, held in Fresno, Calif.
- Burt, C.M. 1988. Qualifications for Irrigation Evaluations. Proceedings of the 1988 Plant and Soil Conference of the California chapter of the American Society of Agronomy, held in Fresno, Calif.
- Merriam, J.L. and C.M. Burt. 1988. Alleviation of Surface and Subsurface Drainage Disposal Problems by Improved Delivery Scheduling. Question 42.1.2, USCID Meeting of Sept. 14-16, held in San Diego, Calif.
- Burt, C.M. and K. Katen. 1988. 1986/87 Water Conservation and Drainage Reduction Program Technical Report of the Westside Res. Cons. District. Submitted to the Office of Water Conservation, Calif. Dept. of Water Resources.
- Burt, C.M. 1988. Soil/Plant/Water Relationships. Presentation to a special session for Landscape/Turf irrigation specialists of The Irrigation Association at the annual conference in Las Vegas, Nev.
- Burt, C.M. 1989. Level Furrow Irrigation on Sloping Fields. Presentation to the California Irrigation Institute, held in Sacramento, Calif.
- Burt, C.M. 1989. Power and Water Conservation for Irrigation Districts. Presentation to the California Irrigation Institute, held in Sacramento, Calif.
- Burt, C.M. 1989. Technological Developments in the United States. Chapter in the publication Technological and Institutional Innovation in Irrigation, World Bank Technical Paper No. 94. G. Le Moigne, S. Barghouti, and H. Plusquellec, editors. The World Bank. Washington, D.C.
- Burt, C.M. 1989. Pressure Control in Irrigation Pipelines. Presented at the 1989 National Water Conference, ASCE Irrig. and Drainage Div. Held at Univ. of Delaware.
- Burt, C.M. and H. Plusquellec. 1990. Water Delivery Control. Chapter 11 of the ASAE monograph Management of Farm Irrigation Systems.
- Burt, C.M. October 1989. Variable Speed Pumping Applications in Agriculture. Presented at the AWWA Energy Committee session of the annual AWWA conference. October 26. Long Beach, Calif.
- Quinn, N., Smith, C.M. Burt, T. Slavin, S.W. Styles, and Mansoubi. 1989. Water Seepage from Unlined Ditches and Reservoirs. California Agriculture (43):6. Nov/Dec issue.
- Burt, C.M. November 1989. Irrigation Efficiency and Uniformity. Presentation and Chair at a 2-day short course for Irrigation Design Preparation at the annual Irrigation Association meeting. Nov. 11-12. Anaheim, Calif.

- Burt, C.M. November 1989. Pipeline Design Strategies. Presentation at a 2-day short course for Irrigation Design Preparation at the annual Irrigation Association meeting. Nov. 11-12. Anaheim, Calif.
- Burt, C.M. August 1989. Research Needs in Irrigation and Drainage - 1989. Journal of Irrigation and Drainage Engineering, Vol. 115, No. 4. By the ASCE Research and Education Administrative Committee. Contributing member.*
- Burt, C.M. and J. Parrish. 1989. Canal Automation Providing On-Demand Water Deliveries for Efficient Irrigation. Final report for USGS Water Resources Research Program, Grant 14-08-0001-G1280. NTIS Access No. PB90119769/AS.
- Burt, C.M. 1990. Applied Water and Irrigated Districts. Presented at the annual CII meeting. Jan. 25. Bakersfield, Calif.
- Burt, C.M. January 1990. Getting the Most Out of District Water. Presented at the annual California Plant and Soil Conference, sponsored by American Soc. of Agronomy. January 31. Fresno, Calif.
- Burt, C.M. 1990. Canal Control Training. Presented at CONSERV90, sponsored by AWWA, ASCE, and ASAE. Phoenix, Arizona.
- Hawkins, T. and C.M. Burt. 1990. AGWATER - Irrigation Management and Planning Expert System. Proceedings of the Third National Irrigation Symposium. Phoenix, Arizona. ASAE Publication 04-90. pp. 64-68.
- Burt, C.M. 1990. Irrigation District Canal Automation - CARDD. Proceedings of the Third National Irrigation Symposium. Phoenix, Arizona. ASAE Publication 04-90. pp. 495-500.
- Burt, C.M. 1990. Research Needs. Proceedings of the Seventh World Bank Irrigation and Drainage Seminar. Baltimore, Md. December 18-20. The World Bank. Washington, D.C.
- Burt, C.M. January 1991. Irrigation Scheduling. Presented at the Western Regional Water Users' Conference of the USBR, held in Reno. January 24.
- Burt, C.M. and Gartrell. 1991. Canal Models and You. Proceedings of the National Conference on Irrigation and Drainage Engineering. Honolulu, Hawaii. ASCE.
- Parrish, J. and C.M. Burt. 1991. Cal Poly Model Canal. Proceedings of the National Conference on Irrigation and Drainage Engineering. Honolulu, Hawaii. ASCE.
- Plusquellec, H. and C.M. Burt. 1992. The Debate Over Modernization. Proceedings of the National Conference on Irrigation and Drainage Engineering, pp. 197-202. Baltimore, MD. ASCE Water Forum.
- Burt, C.M. 1992. Efficient Water Usage in Agriculture. UPDATE: Strategic Directions for a Reliable Water Supply. Southern California Water Committee Update 8(4): 9.
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- Clemmens, A.J., C. Burt, et al. 1993. Unsteady Flow Modeling of Irrigation Canal. ASCE Task Committee on Irrigation Canal System Unsteady Flow Modeling. Journal of Irrigation and Drainage Engineering. ASCE 119 (4):615-630. ASCE. New York.*
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- Parrish, J. and C.M. Burt. 1993. *Cal Poly Model Canal*. *Journal of Irrigation and Drainage Engineering*. Vol. 119 (4):631-636.
- Burt, C.M. 1993. AGWATER. Proceedings of the 1993 Nat. Conf. on Irrig. and Drainage Engr. held at Park City, Utah. Irrig. and Drainage Div., Amer. Soc. of Civil Engr. New York.
- Burt, C.M. and R. Walker. 1993. GIS Utilization for Analysis of District Drainage Water Recycling. Proceedings of the 1993 Nat. Conf. on Irrig. and Drainage Engr. held at Park City, Utah. Irrig. and Drainage Div., Amer. Soc. of Civil Engr. New York.
- Burt, C.M. October 1993. Irrigation Consumer Bill of Rights. Proceedings of the Micro Irrigation Workshop, held in Santa Maria, Calif. October 21.
- Burt, C.M. 1993. Water Conservation: Tradeoffs Between Water & Energy. Presentation to California Water Policy III: Beyond Consensus. Los Angeles Biltmore Hotel.
- Burt, C.M. 1993. Permanent Subsurface Drip in California. Proceedings of the Irrigation Association Annual Conference in San Diego, CA.
- Plusquellec, H., C.M. Burt, and H. Wolter. 1994. Modern Water Control in Irrigation - Concepts, Issues, and Applications. World Bank Technical Paper Number 246. Irrigation and Drainage Series. The World Bank. Washington, D.C.
- Burt, C.M. 1994. Irrigation Could Be Your Cash Crop. *Water Technology* 17(3):105-106.
- Burt, C.M. and H. Wolter. 1994. Guidelines for Irrigation System Modernization in Mexico - A Case Study. Prepared for the International Commission on Irrigation and Drainage.
- Burt, C.M. 1994. The Irrigation Consumer Bill of Rights. *Irrigation Journal*. Vol. 44(4): 32-33.
- Burt, C.M. and J. Wegener. 1994. Monolithic Concrete Irrigation Pipe. ASAE Paper 94-2061. Presented in Kansas City, Mo.
- Burt, C.M. and S.W. Styles. 1994. Drip and Microirrigation for Trees, Vines, and Row Crops, *with special sections on buried drip*. Published by the Irrigation Training and Research Center, Cal Poly, San Luis Obispo, CA. ISBN 0-9643634-0-2. 261 p.
- Burt, C.M. 1994. Media Filtration. Proceedings of the Irrig. Assoc. Annual Conference in Atlanta, GA.
- Styles, S.W., C.M. Burt, D. Westcot and R. Steensen. 1994. Grassland Basin Irrigation and Drainage Study. ASAE Paper 94-2110. Presented in Kansas City, Mo.
- Burt, C.M. 1994. Media Tanks for Filtration, Part I - Tank Sizing and Media Selection. *Irrigation Journal* 44 (5): 14-17.
- Burt, C.M. 1994. Media Tanks for Filtration, Part II - Underdrains, Installations and Adjustments. *Irrigation Journal* 44(6): 17-20.
- Burt, C.M. December 1994. Modern Water Control in Irrigation. World Bank Conference on Irrigation and Drainage. Leesburg, VA.
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- Burt, C.M., R. Walker, J. Parrish and S.W. Styles. 1995. Irrigation System Evaluation Manual - rev. 1995 for Windows. Funded by the OWC, Calif. DWR. Pub. by ITRC, Dept. of Agricultural Engineering, Cal Poly, San Luis Obispo, Calif.

- Burt, C.M. 1995. *The Surface Irrigation Manual - A Comprehensive Guide to Design and Operation of Surface Irrigation Systems*. Waterman Industries. Exeter, CA. ISBN 0-9639016. 373 p.
- Burt, C.M., R.S. Gooch, T.S. Strelkoff and J.L. Deltour. 1995. Response of Ideally Controlled Canals to Downstream Withdrawals. *Proceedings of the ASCE Water Conference in San Antonio, Texas (Water Resources Engineering)*. pg. 169-173.
- Clemmens, A.J., T.S. Strelkoff and C.M. Burt. 1995. Defining Efficiency and Uniformity: Problems and Perspectives. *Water Resources Engineering. Proceedings of the First International Conference. Water Resources Engr. Div., ASCE. August 14-18, San Antonio, TX.* pg. 1521-1525.
- Burt, C.M., A.J. Clemmens and K. Solomon. 1995. Identification and Quantification of Efficiency and Uniformity Components. *Water Resources Engineering. Proceedings of the First International Conference. Water Resources Engr. Div., ASCE. San Antonio, TX. August 14-18.* pg. 1526-1530.
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- Burt, C.M. 1995. Guidelines for Establishing Irrigation Scheduling Policies. Theme V: Interaction Between Water Delivery and Irrigation Scheduling. *ICID/FAO Workshop on Irrigation Scheduling: From Theory to Practice. Rome, Italy. September 12-13.*
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- Burt, C.M. 1995. *Fertigation - The Next Frontier. Irrigation Business and Technology (3)4:16-19.*
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- Burt, C.M. October 1995. *Irrigation Water Conservation - Benefits and Tradeoffs. Proceedings 1995 USCID Water Management Seminar - Irrigation Water Conservation - Opportunities and Limitations. Sacramento, CA. October 5-7. p 51 - 58.*
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- Allen, R.G., C.M. Burt and A.J. Clemmens. June 1996. *Water Conservation Definitions from a Hydrologic Viewpoint. Proceedings of the ASCE North American Water and Environment Congress '96. Held in Anaheim, CA.*
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- Burt, C.M. 1997. Fertigation Chemicals. Proceedings of the Segundo Simposium Internacional de Ferti-Irrigacion held in Queretaro, Mexico on June 21. pp 109-118.
- Solomon, K. and C.M. Burt. 1997. Irrigation Sagacity: A Performance Parameter for Reasonable and Beneficial Use. ASAE Paper 97-2181. 10 p.
- Burt, C.M., S.W. Styles, M. Fidell and E. Reifsnider. 1997. Irrigation District Modernization for the Western U.S. Proceedings of Theme A - Managing Water: Coping with Scarcity and Abundance. 27th Congress of the International Association for Hydraulic Research. pp. 677-682.
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- Burt, C.M., A.J. Clemmens, T.S. Strelkoff, K. Solomon, R.D. Bliesner, L.A. Hardy, T.A. Howell and D.E. Eisenhauer. 1997. Irrigation Performance Measures - Efficiency and Uniformity. Journal of Irrigation and Drainage Engineering. ASCE 123(6):423-442.*
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