

CURRICULUM VITAE
Michael H. Young, Ph.D., P.G., C.E.M.

Address:

Division of Hydrologic Sciences, Desert Research Institute
755 E. Flamingo Rd., Las Vegas, Nevada 89119
Phone: 702-862-5489
Fax: 702-862-5427
email: michael.young@dri.edu

Education:

1995 - Ph.D., Soil and Water Science (Soil Physics/Hydrology), Univ. of Ariz., Tucson, AZ
1985 - M.S., Geological Sciences (Hydrogeology), Ohio University, Athens, OH
1983 - B.A., Geology (cum laude with honors), Hartwick College, Oneonta, NY

Certifications, Awards, and Services:

Graduate Faculty, Hydrologic Sciences Program, University of Nevada Reno, 2000 – present
Associate Graduate Faculty, Dept. Geosciences, Univ. of Nevada Las Vegas, 2003 – present
Associate Editor, Vadose Zone Journal, 2002 – present
Associate Editor, Soil Science Society of America Journal, 2008 – present
Member, S-1 Early Career Award Committee, Am. Soc. Agron, 2006 – present (Chair, 2008)
Member, Kirkham Award Committee, Am. Society Agronomy, 2006 – 2007 (Chair, 2007)
Steering Committee Member, Hydropedology Working Group, ACS 837, 2002 – present
Technical Committee Chair, CSREES, W-188, 2002 – 2003
Member, Vadose Zone Committee, Am. Geophysical Union, 1998 – present (Chair 2002-2004)
Faculty Senate, Desert Research Institute, 2001 – 2004
Faculty Senate Secretary, Desert Research Institute, 2002 – 2003
Nominated for Excellence in Reviewing Award, Water Resources Research, 1995 – 1996
Outstanding Research Staff Award for College of Agriculture, University of Arizona, 1994
Member Gamma Sigma Delta Honor Society, 1992
Nominated for John Christopher Hartwick Award, 1982
Certified Environmental Manager - State of Nevada, No. 1766
Registered Geologist - State of Georgia, No. 1494
Registered Geologist - State of Arizona, No. 26532
Certified Professional Geologist - State of Virginia, No. 728
Member: American Geophysical Union, Soil Science Society of America, American Society for Agronomy, Geological Society of America

Technical reviewer (last 5 years): National Science Foundation, Water Resources Research, J. American Water Resources Association, Vadose Zone Journal, Soil Science Society of America Journal, Soil Science, Ground Water, J. Contaminant Hydrology, J. American Society of Agricultural Engineers, USDA SBIR

Special Session Organizer (selected):

1998: co-convener (with Jan Hopmans), Scaling issues in vadose zone hydrology, 1998, AGU Fall Meeting;
2000-2004, 2008, 2009: Environmental vadose zone hydrology, AGU Fall Meeting

2003: co-convener (with Ger de Rooij), Subsurface fluid, energy, and solute transport processes: concepts, models, and observations, Spring Meeting, AGU, Nice France.
2006: co-convener (with Henry Lin), Bridging Hydrology, Soil Science and Ecology: Hydropedology and Ecohydrology, AGU Fall Meeting;
2008: co-convener (with David Robinson and Ron Ryel), Soil, Water and Plants: Linking physical processes in water controlled ecosystems, Ecol. Soc. America
2009: co-convener (with Jianting Zhu), Landscapes in Semiarid and Arid Environments: A Hydrological and Ecological Perspective, AGU Fall Meeting.

Teaching and Advising:

2004, 2005, 2007, 2009 – Introduction to Vadose Zone Hydrology – Univ. Nevada Las Vegas, Dept. of Geosciences (student evaluations: all > 3.83/4.00)
2008 – Ecohydrology of Arid Lands – Univ. Nevada Las Vegas, Dept. of Geosciences
Currently advising three students (1 MS, 2 PhD), and serving on committees for two students (1 MS, 1 PhD). Past advisor or committee member for seven students (3 MS, 4 PhD)

Employment:

2009-present **Research Professor**, Desert Research Institute, Las Vegas, NV
2008-present **Acting Executive Director**, Division of Hydrologic Sciences, Desert Research Institute
2004-2009 **Associate Research Professor**, Desert Research Institute, Las Vegas, NV
2003-2008 **Deputy Director**, Division of Hydrologic Sciences, Desert Research Institute
2000-2004 **Assistant Research Professor**, Desert Research Institute, Las Vegas, NV
1998-2000 **Senior Research Scientist**, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA
1996-1998 **Assistant Research Scientist**, Department of Soil, Water and Environmental Science, University of Arizona, Tucson, AZ
1995-1996 **Senior Research Specialist**, Department of Soil, Water and Environmental Science, University of Arizona, Tucson, AZ
1991-1996 **Principal/Hydrogeologist**, GeoSystems Analysis, Tucson, AZ
1990-1995 **Research Specialist**, Department of Soil, Water and Environmental Science, University of Arizona, Tucson, AZ
1988-1990 **Hydrogeologist/Field Ops. Leader**, C.C. Johnson & Malhotra, Silver Spring, MD
1986-1988 **Hydrogeologist/Project Manager**, Division of Waste Management, U.S. Nuclear Regulatory Comm., Wash., DC
1983-1985 **Field Research Tech.**, Ohio Univ., Athens, OH/U.S. Forest Service, Berea, KY

Refereed Publications:

Labahn, S.K. J.C. Fisher, M.H. Young., E. Robleto, D.P. Moser. 2009. Microbially-mediated aerobic and anaerobic degradation of acrylamide in a western U.S. irrigation canal. *J. Env. Qual.* Submitted.
Schulman, C., K. Acharya, M.H. Young. 2009. Physiological response of *Daphnia magna* to Linear Anionic Polyacrylamide: Ecological Implications for Receiving Waters. *Archives of Environ. Contam. and Tox.* Submitted.
Conrad, B.G., D.A. Devitt, M.H. Young, L.F. Fenstermaker. 2009. Estimating sensible heat in the Great Basin, Nevada using a large aperture scintillometer. *J. Arid Env.* Under revision.

- Chen, L. J. Zhu, M. H. Young, and R.B. Susfalk. 2009. An Integrated Approach to Modeling Solute transport in streams and canals with applications. *J. Hydrology*. 378:128–136.
- Zhu, J. and M.H. Young. 2009. Uncertainty and sensitivity of evapotranspiration estimates for semi-arid shrublands. *J. Am. Water Resour. Assoc.* 45(3):641-653. DOI:10.1111/j.1752-1688.2009.00312.x.
- Kavouras, I.G., V. Etyemezian, G. Nikolich, M.H. Young, J. Gillies, D.S. Shafer. 2009. A New technique for characterizing the efficacy of fugitive dust suppressants. *J. Air Waste Mgmt. Assoc.* 59:603-612.
- Zhu, J. and M.H. Young. 2009. Sensitivity of unlined canal seepage to hydraulic properties of Polyacrylamide-Treated Soil. *Soil Sci. Soc. Am. J.* doi: 10.2136/sssaj2008.0261.
- Young, M.H., T.G. Caldwell, D.G. Meadows, L.F. Fenstermaker. 2009. Variability of soil physical and hydraulic properties at the Mojave Global Change Facility, Nevada: Implications for water budget and evapotranspiration. *J. Arid Env.* doi:10.1016/j.jaridenv.2009.01.015.
- Caldwell, T.G., E.V. McDonald and M.H. Young. 2009. The seedbed microclimate and active revegetation of disturbed lands in the Mojave Desert. *J. Arid Env.* doi:10.1016/j.jaridenv.2008.12.008.
- Young, M.H., E.A. Moran, Z. Yu, J. Zhu, D.M. Smith. 2009. Reducing saturated hydraulic conductivity of soil with polyacrylamide. *Soil Sci. Soc. Am. J.* 73:13-20.
- Caldwell, T.G., M.H. Young, J. Zhu and E.V. McDonald. 2008. The spatial structure of hydraulic properties from canopy to interspace in the Mojave Desert. *Geophysical Res. Letters*. vol. 35, L19406, doi:10.1029/2008GL035095.
- Wang, X-P., Y. Cui, Y.-X. Pan, X.-R. Li, Z. Yu, M.H. Young. 2008. Effects of rainfall characteristics on infiltration and redistribution patterns in revegetation-stabilized desert ecosystems. *J. Hydrology*. 358:134–143.
- Yin, J., M. H. Young, and Z. Yu. 2008. Effects of paleoclimate and time-varying canopy structures on paleowater fluxes. *J. Geophys. Res.- Atmospheres*. 113. D06103. doi:10.1029/2007JD009010.
- Devitt, D.A., M.H. Young, M. Baghzouz, and B.M. Bird. 2008. Surface temperature, heat loading, and spectral reflectance of artificial turfgrass. *Journal of Turfgrass and Sports Surface Science*, 83:68-82.
- Young, M.H., G.S. Campbell, J. Yin. 2008. Correcting dual-probe heat-pulse readings for ambient temperature fluctuations. *Vadose Zone J.* 7:22–30.
- Wang, X.-P., M. H. Young, Z. Yu, and Z.-S. Zhang. 2007. Long-term effects of restoration on soil hydraulic properties in revegetation-stabilized desert ecosystems. *Geophys. Res.Lett.* doi:10.1029/2007GL031725.
- Young, M. H., H. Lin, and B. P. Wilcox. 2007. Introduction to Special Section on Bridging Hydrology, Soil Science, and Ecology: Hydropedology and Ecohydrology, *Geophys. Res. Lett.*, 34, L24S20, doi:10.1029/2007GL031998.
- Meadows, D.G., M.H. Young, E.V. McDonald. 2007. Influence of surface age on infiltration mechanisms of desert pavements, Mojave Desert. *Catena*. 72:169-178.
- Zhu, J., M.H. Young, M.Th. van Genuchten. 2007. Upscaling schemes and relationships for Gardner and van Genuchten hydraulic functions for heterogeneous soils. *Vadose Zone J.* 6:186-195.
- Shafer, D.S., M.H. Young, S.F. Zitzer, T.G. Caldwell, E.V. McDonald. 2007. Impacts of interrelated biotic and abiotic processes during the past 125,000 years of landscape evolution in the northern Mojave Desert, Nevada, U.S.A. *J. Arid Env.* 69:633-657.

- Chen, L. and M.H. Young. 2006. Green-Ampt model for sloping surfaces. *Water Resour. Res.*, Vol. 42, No. 7, W07420.
- Caldwell, T.G. E.V. McDonald, M.H. Young. 2006. Soil disturbance and unsaturated hydraulic response at the National Training Center, Ft. Irwin, California. *J. Arid Env.* 67:456-472.
- Young, M.H., W. Albright, K.F. Pohlmann, G. Pohl, W.H. Zachritz, S. Zitzer, D.S. Shafer, I. Nester, L. Oyelowo. 2006. Incorporating parametric uncertainty in the design of alternative landfill covers in arid regions. *Vadose Zone J.* 5:742-750.
- Meadows, D.G., M.H. Young, E.V. McDonald. 2006. Estimating clay content and saturated hydraulic conductivity on clay-rich surfaces using GPR. *Vadose Zone J.* 5:720-730.
- Meadows, D.G., M.H. Young, E.V. McDonald. 2005. A laboratory method for determining the unsaturated hydraulic functions of individual soil pedes. *Soil Sci. Soc. Am. J.* 69 807-815.
- Young, M.H. E.V. McDonald, T.C. Caldwell, S.G. Benner, D.G. Meadows. 2004. Hydraulic properties of a desert soil chronosequence in the Mojave Desert, USA. *Vadose Zone J.* 3:956-963.
- Pennell, K.D., A. Karagunduz, M.H. Young. 2004. Impacts of surfactant adjuvants on pesticide availability and transport in soils. *Pesticide Decon. and Detox.* 863:231-245.
- Obrist, D., P.S.J. Verburg, M.H. Young, J.S. Coleman, D.E. Schorran, J.A. Arnone III. 2003. Quantifying the effects of phenology on ecosystem evapotranspiration in planted grassland mesocosms using EcoCELL technology. *Ag. Forest Met.* 118 (3-4): 173-183.
- Rasmussen, T.C., K.G. Haborak, M.H. Young. 2003. Estimating aquifer hydraulic properties using sinusoidal pumping at the Savannah River site, South Carolina, USA. *Hydrogeology J.* 11:466-482.
- Dahan, O. E.V. McDonald, M.H. Young. 2003. Development of a flexible TDR probe for deep vadose zone monitoring. *Vadose Zone J.* 2:270-275.
- Young, M.H., T.C. Rasmussen, F.C. Lyons, K.D. Pennell. 2002. Optimized system to improve pumping rate stability during aquifer tests. *Ground Water.* 40:629-637.
- Young, M.H., A. Karagunduz, J. Simunek, K.D. Pennell. 2002. A modified upward infiltration method for determining soil hydraulic properties. *Soil Sci. Soc. Am. J.* 66:57-64.
- Karagunduz, A., K.D. Pennell, M.H. Young. 2001. Influence of a nonionic surfactant on the hydraulic properties of unsaturated soils. *Soil Sci. Soc. Am. J.* 65:1392-1399.
- Brown, P.W., C.F. Mancino, M.H. Young, T.L. Thompson, P.J. Wierenga, D.M. Kopec. 2001. Penman-Monteith crop coefficients for use with desert turf systems. *Crop Sci.* 41:1197-1206.
- Zou, Z-Y, M.H. Young, Z. Li, P.J. Wierenga. 2001. Estimation of unsaturated hydraulic properties from a deep infiltration experiment. *J. Hydrology.* 242:26-42.
- Nelson, N.T., M.L. Brusseau, T.D. Carlson, M.H. Young, G.R. Johnson, M.S. Costanza, P.J. Wierenga. 1999. The partitioning tracer method for the in-situ measurement of water content. *Water Resour. Res.* 35:3699-3707.
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1999. Variability of water front velocities during a field-scale infiltration experiment. *Water Resour. Res.* 35:3079-3087.
- Warrick, A.W., M.H. Young, P.J. Wierenga. 1998. Probabilistic analysis of monitoring systems for detecting subsurface contaminant plumes. *Ground Water.* 5:894-900.
- Warrick, A.W., P.J. Wierenga, M.H. Young, S.A. Musil. 1998. Diurnal fluctuations of tensiometric readings due to surface temperature changes. *Water Resour. Res.* 34:2863-2869.
- Yu C., A.W. Warrick, M.H. Conklin, M.H. Young, M. Zreda. 1997. Simplified calibration of

- time domain reflectometry for soil moisture measurement. *Water Resour. Res.* 33:2417-2421.
- Young, M.H., P.J. Wierenga, C.F. Mancino. 1997. Monitoring near-surface soil water storage in a turfgrass environment using TDR and weighing lysimetry. *Soil Sci. Soc. Am. J.* 61:1138-1146.
- Young, M.H., J.B. Fleming, P.J. Wierenga, A.W. Warrick. 1997. Rapid laboratory calibration of TDR probes using upward infiltration. *Soil Sci. Soc. Am. J.* 61:707-712.
- Young, M.H., P.J. Wierenga, C.F. Mancino. 1996. Large weighing lysimeters for water use and deep percolation studies. *Soil Science.* 161:491-497.
- Gee, G.W., P.J. Wierenga, B.J. Andraski, M.H. Young, M.J. Fayer, M.L. Rockhold. 1994. Variations in water balance and recharge at three western desert sites. *Soil Sci. Soc. Am. J.* 58:63-72.

Book Chapters:

- Young, M.H., W. Albright, K.F. Pohlmann, G. Pohll, W.H. Zachritz, S. Zitzer, D.S. Shafer, I. Nester, L. Oyelowo. 2006. Designing alternative landfill covers using parametric uncertainty analysis. in *Unsaturated Soils 2006*, pp. 682-694. G.A. Miller et al. (eds.). ASCE Special Publication 147. ISBN: 0-7844-0802-5.
- Shafer, D.S., Young, M.H., Zitzer, S.F., McDonald, E.V., T. G. Caldwell. 2006. Coupled environmental processes in the Mojave Desert and implications for ET covers as stable landforms. in *Unsaturated Soils 2006*, pp. 718-729. Geotechnical Special Publication 147 (eds., Miller, G.A., Zapata, C.E., Houston, S.L., and D.G. Fredlund), American Society of Civil Engineers. ISBN: 0-7844-0802-5.
- Young, M.H., L. Papelis. 2003. Vadose Zone and Groundwater Protection. In. *Encyclopedia of Water Science*. B. Stewart and B. Howell. Ed. Marcel Dekker, New York. pp. 1008-1012.
- Levitt, D.G., M.H. Young. 2003. Hygroscopic Water. In. *Encyclopedia of Water Science*. B. Stewart and B. Howell. Ed. Marcel Dekker, New York. pp. 923-927.
- Young, M.H., J.Y. Sisson. 2002. Tensiometry. In. *Methods of soil analysis, Part 4, SSSA Book Series: 5*, J. Dane and C. Topp, editors. Am. Soc. Agron., Madison, WI. pp. 575-609.
- Young, M.H. 2002. Piezometry. In. *Methods of soil analysis, Part 4, SSSA Book Series: 5*, J. Dane and C. Topp, editors. Am. Soc. Agron., Madison, WI. pp. 547-574.

Other Publications:

- Chen, L. and M.H. Young. 2008. Some Physical Aspects and a New Modeling Approach for Rainfall Infiltration-Runoff Processes. DRI Publication No. 412XX.
- Susfalk, R.B., D. Sada, C. Martin, M.H. Young, (11 others). 2008. Evaluation of Linear Anionic Polyacrylamide (LA-PAM) Application to Water Delivery Canals for Seepage Reduction. DRI Publication No. 41245.
- Young, M.H., T.G. Caldwell, J.J. Miller, G. Dalldorf. 2007. Hydraulic Characteristics of Soil Contributing to the Windmill Wash Detention Basin near Bunkerville, Nevada. DRI Publication No. 41240.
- Susfalk, R.B., M.H. Young, D.M. Smith. 2007. Application Guidelines: Use of Granular, Linear Anionic Polyacrylamide (LA-PAM) in Water Delivery Canals for Seepage Control. DRI Publication No. 41239.
- Young, M.H. 2007. (Editor) Results of Laboratory Experiments in Support of PAM-Related Research (with nine authors). DRI Publication No. 41237.

- Zhu, J. M.H Young, M.E. Cablk. 2007. Uncertainty Analysis of Estimates of Ground-Water Discharge by Evapotranspiration for the BARCAS Study Area. DRI Publication No. 41234.
- Young, M.H. T.G. Caldwell, D.G. Meadows, D.S. Shafer, S Zitzer, J.J. Miller, E.V. McDonald, J.O. Goreham, V. Etyemezian, G. Nikolich. 2007. Technical Report: Evaluation of Topical Application of Encapco Emulsion on Desert Soils. DRI Publication No. 41233.
- Young, M.H. J.J. Tappen, G.C. Miller, S. Carroll, R.B. Susfalk. 2007. Initial Risk Characterization: Using Linear Anionic Polyacrylamide (LA-PAM) to Reduce Water Seepage from Unlined Water Delivery Canal Systems. DRI Publication No. 41226.
- Meadows, D.G., M.H. Young, L. Fenstermaker. 2006. Technical Report: Geostatistical Analysis of Soil and Hydraulic Properties at MGCF. DRI Publication No. 41225.
- Young, M.H., K. Adams, S. Mizell, L. Chen, T. Bullard, S. Grant. 2005. Assessment and Improvement of Hydraulic Characterization of Alluvial Fans to Support Estimates of Recharge and Initial Abstraction. DRI Publication No. 41218.
- Young, M.H., W. Albright, W. Zachritz, D.S. Shafer, K.D. Pohlmann, M. Cablk, S. Zitzer, E.V. McDonald. 2004. Alternative Cover Design for Edwards Air Force Base, CA: Data Collection, Monte Carlo Modeling, and Design Sensitivity Analysis. DRI Publication No. 41192.
- Shafer, D.S., M.H. Young, S. Zitzer, E.V. McDonald, T.G. Caldwell. 2004. Coupled environmental processes: Implications for landscape development in the northern Mojave Desert. DRI Publication No. 45203.
- Young, M.H., B.F. Lyles, G. Dana. C.A. Cooper. 2003. Evaluation of infiltration through biocovers at the Outerloop RDF, Louisville, KY. DRI Publication No. 41187.
- Young, M.H., K.D. Pohlmann. 2003. Analysis of Vadose Zone Monitoring Systems: Computer Simulation of water flux under conditions of variable vegetative cover; E-Area Disposal Trenches. DRI Publication No. 41188.
- Amirtharajah, A., M.H. Young, K.D. Pennell, J.L. Steiner, D.S. Fisher, D.M. Endale. 2002. Field transport of a Cryptosporidium surrogate in small catchments used for grazing lands. Am. Water Works Assoc. Res. Found.
- Young, M.H. C.A. Cooper, S. Sharpe, J.J. Miller, D.S. Shafer. 2002. Upward Advection: Dynamic simulation of vadose zone moisture flux.
- Young, M.H. C.F. Mancino, P.J. Wierenga. 2000. Use of time domain reflectometry for measuring soil water content changes in turf. Golf Course Management. Nov:66-70.
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil, M. Yao, C. Mai, B.R. Scanlon. 1999. Results of field studies at the Maricopa Environmental Monitoring Site, Arizona. NUREG/CR-5694, U.S. Nuclear Regulatory Commission, Washington, DC.
- Young, M.H., A.W. Warrick, P.J. Wierenga, S.A. Musil, 1999. Comparing monitoring strategies at the Maricopa site, Arizona. NUREG/CR-5698, U.S. Nuclear Regulatory Commission, Washington, DC.
- Young, M.H., Z-Y Zou, P.J. Wierenga. 1997. Results of lysimeter core infiltration study for characterizing unsaturated flow and transport. Task 1 Report. Submitted to NIEHS Superfund Research Group, University of Arizona, Tucson, AZ.
- Vinson, J., P.J. Wierenga, R.G. Hills, M.H. Young. 1997. Flow and transport at the Las Cruces trench site: Experiment 2b. NUREG/CR-6437, U.S. Nuclear Regulatory Commission, Washington, DC.
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil, B.R. Scanlon, T.J. Nicholson. 1996. Field testing plan for unsaturated zone monitoring and field studies.

- NUREG/CR-6462, U.S. Nuclear Regulatory Commission, Washington, DC.
- Wierenga, P.J., R.G. Hills, M.H. Young, and J. Vinson. 1996. A field study for evaluating unsaturated zone flow and transport models. In Joint U.S. Geological Survey, U.S. Nuclear Regulatory Commission on research related to low-level radioactive waste disposal, May 4-6, 1993, National Center, Reston, VA, U.S. Geological Survey, Water Res. Inv. Report 95-4015. U.S. Govt. Printing Ofc. Washington, DC.
- Young, M.H. 1995. Monitoring near-surface soil water loss with time domain reflectometry and weighing lysimeters. Ph.D. Dissertation. Dept. of Soil, Water and Env. Science, Univ. of Arizona.
- Ankeny, M.D., M.H. Young, P.J. Wierenga, A.W. Warrick. 1995. Strategies and systems for monitoring the vadose zone at LLW and SDMP facilities. Task 1 report. Submitted to the U.S Nuclear Regulatory Commission under Contract #NRC-04-95-046. Wash., D.C.
- Wierenga, P.J., M.H. Young, G.W. Gee, R.G. Hills, T.J. Nicholson, R.E. Cady. 1993. Soil characterization methods for unsaturated low-level waste sites. NUREG/CR-5988, U.S. Nuclear Regulatory Commission, Washington, DC.
- Wierenga, P.J., M.H. Young. 1991. Standard Operating Procedures and Quality Assurance Plan for NRC Contract 060231-A-B1. Flow and Transport Database and Modeling in Unsaturated Soils, University of Arizona, Tucson, AZ.
- Shum, E., R.J. Starmer, M.H. Young. 1990. Environmental monitoring at low-level radioactive waste disposal facilities, NUREG-1388, U.S. Nuclear Regulatory Commission, Washington, DC.
- Young, M.H. 1986. A comparative study to determine the effects of coal mining on the hydrology of small watersheds in southeastern Ohio, Master's Thesis, Ohio University, Athens, Ohio.

Abstracts and Presentations:

- Menon, M., M. Berli, T.A. Ghezzehei, P. Nico, M.H. Young, S.W. Tyler. 2008. Visualizing Rhizosphere Soil Structure Around Living Roots. Presented at the Fall AGU Meeting, San Francisco, CA.
- Nie, W., M.J. Nicholl, M.H. Young, Z. Yu. 2008. Impact of Soil Layering on Evaporation Driven Flow and Transport in Arid Soils. Presented at the Fall AGU Meeting, San Francisco, CA.
- Koonce, J. M.H. Young, Z. Yu, Chief, K., J. Healey, S.W. Tyler. 2008. Relating Temperature Propagation and Wetting Front in Arid Soils Using Distributed Temperature Sensing (DTS) Coupled With Multiple Technologies. Presented at the Fall AGU Meeting, San Francisco, CA.
- Chief, K., M.H. Young, J. Healey, E. Johnson, E. Knight, J. Koonce, Z. Yu, S.W. Tyler, 2008. Scaling Environmental Processes in Heterogeneous Arid Soils (SEPHAS) Weighing Lysimeter Facility: Construction, Installation, and Preliminary Infiltration Experiment Data. Presented at the Fall AGU Meeting, San Francisco, CA.
- Sun, O., J. Zhu, M.H. Young, T.G. Caldwell, E.V. McDonald. 2008. . Presented at the Fall AGU Meeting, San Francisco, CA.
- Xiang, L., J. Mon, Z. Yu, M.H. Young, M. Stone, K. Acharya. 2008. Simulating One Dimensional Water Flow and Solute Transport in Arid Soils. Presented at the Fall AGU Meeting, San Francisco, CA.

- Berli, M., T. Ghezzehei, M. Menon, S.W. Tyler, M.H Young, A. Dexter. 2008. Modeling Rhizosphere Soil Mechanics and Hydraulics - An Overview. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Young, M.H., T.G. Caldwell, J. Zhu, L. Fenstermaker, Eric V. McDonald. 2008. Multi-Scale Variability of Soil and Hydraulic Properties and Impacts to Arid Water Balance. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Mon, J., Z. Yu, M.H. Young. 2008. Tracer Characteristics of Brilliant Blue FCF and FD&C Green No. 3 in Arid Soils. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Chief, K, M.H. Young. 2008. Spatial Variability of Soil Air Permeability and Hydraulic Properties in Desert Soils. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Young, M.H., E.V. McDonald, T.G. Caldwell. 2008. Relating Mass and Energy Fluxes to Arid Soil Development. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Caldwell, T.G., E.V. McDonald, M.H. Young, S. Bacon, G.M. Marion. 2008. Numerical Simulations of Salt Accumulation In a Hyper-Arid Soil Chronosequence In the Sonoran Desert. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Caldwell, T.G., M.H. Young, J.J. Miller, G.K. Dalldorf. 2008. Characterizing Hydraulic Properties in An Arid Watershed to Aid in Flood Control and Uncertainty Analysis. Presented at Am. Soc. Agron. National Meetings, Houston, TX.
- Young, M.H., T.G. Caldwell, J. Miller, L. Chen, G. Dalldorf, S. Bacon and E. McDonald. 2008. Using Terrain Forecasting and Field Measurements to Predict Runoff Potential. Presented at the Am. Soc. of Flood Plain Managers National Meetings, San Diego, CA.
- Young, M.H., T.G. Caldwell, E.V. McDonald. 2008. Evolution of arid alluvial soils: Linking texture and structure to the partitioning of water at different spatial scales. Presented at the 1st International Conference on Hydropedology, Penn State University, PA (Invited).
- Young, M.H. 2008. Monitoring and examining soil water balance to support riparian restoration. Presented at the Lower Colorado River Basin Riparian Revegetation Workshop. Las Vegas, NV, May 7, 2008.
- Caldwell, T., M.H. Young, J. Zhu, E.V. McDonald. 2008. Gradation of Soil Hydraulic Properties from Canopy to Interspace on a Mojave Desert Soil Chronosequence. Presented at the European Geosciences Meeting, Vienna, Austria, April 14-18, 2008.
- Zhu, J., T.G. Caldwell, M.H. Young, E.V. McDonald. 2008. Implications of Under-Canopy and Interspace Soil Hydraulic Property Distributions in Large Scale Desert Ecosystems. Presented at the European Geosciences Meeting, Vienna, Austria, April 14-18, 2008.
- Young, M.H., Z. Yu, S.W. Tyler, K. Chief, E. Knight, J. Healey, J. Zhu, M. Menon, J. Mon. 2008. Examining Arid Soil Processes in Nevada USA Using Weighing Lysimeters. Presented at the European Geosciences Meeting, Vienna, Austria, April 14-18, 2008.
- Caldwell, T.G., M.H. Young, J. Zhu, E.V. McDonald. 2008. Heterogeneity of Soils and Hydraulic Properties from Canopy to Interspace in the Mojave Desert. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.
- Zhu, J. T.G. Caldwell, M.H. Young, E.V. McDonald. 2008. Scaling Under-Canopy and Interspace Soil Hydraulic Properties in Desert Ecosystems. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.

- Berli, M., M. Menon, S.W. Tyler, M.H. Young. 2008. Root Induced Changes in Physical Properties of Desert Soils. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.
- Conrad, B., D.A. Devitt, M.H. Young, L. Fenstermaker. 2008. Estimating Sensible Heat in the Great Basin, NV using a Large Aperture Scintillometer. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.
- Devitt, D.A., B. Conrad, L. Fenstermaker, M.H. Young, B. Bird. 2008. Basin Wide Evapotranspiration Estimates in Northern Nevada. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.
- Knight, E., M.H. Young, K. Chief, J. Healey, J. Zhu, J. Mon, M. Menon, S.W. Tyler, Z. Yu. 2008. Presented at the Symposium "Understanding Near-Surface Environmental Processes," Las Vegas, NV April 9-10, 2008.
- Young, M.H., T.G. Caldwell, J.J. Miller, G. Dalldorf. 2007. Combining Pedotransfer Functions and Detailed Geomorphic Mapping to Characterize Runoff Potential on an Arid Alluvial Fan Complex. Presented at the Fall AGU Meeting, San Francisco, CA.
- Caldwell, T.G., M.H. Young, J. Zhu, L. Fenstermaker, E.V. McDonald. 2007. Scaling Heterogeneous Soil Hydraulic Properties Using Canopy/Interspace Distributions in a Mojave Desert Ecosystem. Presented at the Fall AGU Meeting, San Francisco, CA.
- Conrad, B. D.A. Devitt, M.H. Young, L. Fenstermaker. 2007. Estimating Sensible Heat in the Great Basin, NV using a Large Aperture Scintillometer. Presented at the Fall AGU Meeting, San Francisco, CA.
- Arrowood, T., M.H. Young, Z. Yu, S. Labahn, D. Moser. 2007. Fate and Transport of Acrylamide in Soil and Groundwater Systems: Sorption, Retardation and Numerical Simulations. Presented at the Fall AGU Meeting, San Francisco, CA.
- Labahn, S., D. Moser, T. Arrowood, M.H. Young. 2007. Fate of Acrylamide in Soil and Groundwater Systems: Microbial Degradation. Presented at the Fall AGU Meeting, San Francisco, CA.
- Yin, J. M.H. Young, Z. Yu. 2007. Effects of Paleoclimate and Time-Varying Canopy Structures on Paleo-Water Fluxes. Presented at the Fall AGU Meeting, San Francisco, CA.
- Chen, L. J. Zhu, M.H. Young. 2007. Polyacrylamide Transport in Water Delivery Canals. Presented at the Fall AGU Meeting, San Francisco, CA.
- Young, M.H. 2007. Groundwater Characterization and Monitoring Strategies II, Presented at the American Nuclear Society Meetings, Washington, DC, Nov 11-15, 2007 (Invited).
- Caldwell, T.G. M.H. Young, J. Zhu, E.V. McDonald. 2007. Small-Scale Heterogeneity of Soil Hydraulic Properties on Large-Scale Water Balance Simulations. Presented at the Am. Soc. Agron. Meetings, New Orleans, LA.
- Young, M.H. T.G. Caldwell, J. Zhu. 2007. Spatial Variability of Soil Hydraulic Properties at Interspace/Canopy Microsites. Presented at the Am. Soc. Agron. Meetings, New Orleans, LA. (Invited).
- Devitt, D.A. M. Baghzouz, B. Bird, M.H. 2007. Surface Temperature, Heat Loading and Spectral Reflectance of Artificial Turfgrass. Presented at the Am. Soc. Agron. Meetings, New Orleans, LA.
- Devitt, D.A. B. Bird, M.H. Young. 2007. Spatial and Temporal Assessment of Soil Moisture Redistribution, Evaporation, and Transpiration. Presented at the Am. Soc. Agron. Meetings, New Orleans, LA.

- Young, M.H. Measuring Water Content in Near-surface Soils With Large Changes In Ambient Temperature. Presented at the Environmental Sensors Symposium. Boise State University, Boise ID, Oct 26-27, 2007 (Invited).
- Caldwell, T.G. E.V. McDonald, M.H. Young, E.P. Hamerlynck and S.N. Bacon. 2007. Soil Development and Hydrology of an Arid Soil Chronosequence in the Sonoran Desert. Presented at the Unsaturated Zone Interest Group meetings, Los Alamos, NM. August 27-29, 2007.
- McDonald, E.V. M. H. Young, T.G. Caldwell, S.G. Benner, and D.G. Meadows. 2007. Hydraulic Properties of a Desert Soil Chronosequence in the Mojave Desert, USA. Presented at the Unsaturated Zone Interest Group meetings, Los Alamos, NM. August 27-29, 2007.
- Young, M.H., Z. Yu, S.W. Tyler. 2007. Large Weighing Lysimeters for Studying Environmental Processes in Arid Soils, Presented at the Unsaturated Zone Interest Group meetings, Los Alamos, NM. August 27-29, 2007.
- Moran, E., M.H. Young., Z. Yu. 2006. Mechanisms for reducing infiltration in laboratory columns using polyacrylamide (PAM). Presented at the Fall AGU Meeting, San Francisco, CA.
- Chen, L., M.H. Young. 2006. A Physically-Based Two-dimensional Rainfall-Runoff Model for Small-Scale Watersheds. Presented at the Fall AGU Meeting, San Francisco, CA.
- Caldwell, T.G., E.V. McDonald, M.H. Young, E.P. Hamerlynck, S.N. Bacon. 2006. Ecohydrology of an Arid Soil Chronosequence in the Sonoran Desert, Yuma Proving Ground, USA. Presented at the Fall AGU Meeting, San Francisco, CA.
- Susfalk, R.B., B.J. Epstein. M. Schmidt, J.O. Goreham, B. Fitzgerald, M.H. Young, C. Martin, J. Swihart, D. Smith. 2006. Seepage Reduction from Unlined Irrigation Canals: Water Quality and Seepage Reduction Effectiveness. Presented at the Fall AGU Meeting, San Francisco, CA.
- Cablk, M., J. Zhu, C. Kratt, R. Jasoni, M.H. Young, J. Thomas. J. Arnone. 2006. Multi-scale remote sensing observations as a basis for estimating evapotranspiration across the eastern Great Basin Desert, Nevada, USA. Presented at the Fall AGU Meeting, San Francisco, CA.
- Zhu, J., M.H. Young, E.A. Moran. 2006. Effects of Polyacrylamide Treated Soils on Water Seepage in Unlined Water Delivery Canals. Presented at the American Soc. Agron meetings, Indianapolis, IN.
- Young, M.H., T. Caldwell, D.G. Meadows, V. Etyemezian, G. Nikolic, D. Shafer, E. McDonald, J. Miller, J. Goreham. 2006. Field and Laboratory Evaluation of a Soil-Applied, Organic Emulsion. Presented at the American Soc. Agron meetings, Indianapolis, IN.
- Chen, L. J Zhu, M.H. Young. 2006. Modelling Polyacrylamide Transport in Water Delivery Canals. Presented at the American Soc. Agron meetings, Indianapolis, IN.
- Meadows, D.G. M.H. Young, L. Fenstermaker. 2006. Impact of Spatial Variability of Soil Properties on Local Water Balance in a Mojave Desert Ecosystem. Presented at the American Soc. Agron meetings, Indianapolis, IN.
- Zhu, J., D. Sun. M.H. Young. 2006. Aggregating Hydraulic Property Measurements to Large Scale Hydrologic Processes. Presented at the AGU - Western Pacific Geophysics Meeting, Beijing, China.
- Young, M.H., D.G. Meadows, T.G. Caldwell, D.S. Shafer, E.V. McDonald. 2006. Evolution of soil hydraulic properties on arid alluvial fans. Presented at the AGU - Western Pacific Geophysics Meeting, Beijing, China (Invited).

- Young, M.H., E.V. McDonald, T.G. Caldwell, D.G. Meadows, D.S. Shafer. 2006. Evolution of soil hydraulic properties on arid alluvial fans: Impacts on near-surface water resources. Invited presentation at Hohai University, School of Hydraulic Eng., Nanjing, China.
- Young, M.H., T. Caldwell, D.G. Meadows, V. Etyemezian, G. Nikolic, D. Shafer, E. McDonald, J. Miller, J. Goreham. 2006. Hydrologic and Air Quality Impacts of a Soil-Applied, Organic Emulsion. Presented at the World Congress of Soil Science, Philadelphia, PA.
- Young, M.H. Z. Yu, S.W. Tyler. 2006. Scaling Environmental Processes in Heterogeneous Arid Soils (SEPHAS): A New Research Facility in Nevada USA. Presented at the World Congress of Soil Science, Philadelphia, PA. (Invited).
- Zhu, J., M.H. Young. 2005. Correspondence of hydraulic functions and its implication on upscaling for large scale flux and surface soil moisture in heterogeneous soils. Presented at the Fall AGU Meeting, San Francisco, CA.
- Moran, E.M. M.H. Young, Z. Yu. 2005. Laboratory studies to examine the impact of polyacrylamide (PAM) on soil hydraulic conductivity. Presented at the Fall AGU Meeting, San Francisco, CA.
- Young, M.H., T.G. Caldwell, J.O. Goreham, D.G. Meadows, D.S. Shafer, J.J. Miller, E.V. McDonald. 2005. Hydrologic impacts of a surface-applied, organic emulsion on arid soils. Presented at the Fall AGU Meeting, San Francisco, CA.
- Susfalk, R.B., M.H. Young, M. Schmidt, B.J. Epstein, J.O. Goreham, J. Swihart, D. Smith. 2005. Use of polyacrylamide to reduce seepage from unlined irrigation canals: initial results from small scale test troughs. Presented at the Fall AGU Meeting, San Francisco, CA.
- Caldwell, T.G., E.V. McDonald, M.H. Young, B.A. Stevenson. 2005. Modeling the interdependence of hydrogeology and root distributions of {Larrea Tridentata} in the Mojave Desert. Presented at the Fall AGU Meeting, San Francisco, CA.
- Chen, L., M.H. Young. 2005. Two-dimensional approaches for simulating overland flow. Presented at the Fall AGU Meeting, San Francisco, CA.
- Young, M.H. Z. Yu, S.W. Tyler, et al. 2005. Scaling Environmental Processes in Heterogeneous Arid Soils (SEPHAS): A New Nevada NSF EPSCoR Initiative. Presented at the NSF Sponsored Workshop "Frontiers in Exploration of the Critical Zone" University of Delaware, Newark, DE.
- Meadows, D.G., M.H. Young, E.V. McDonald. 2005. Dynamism in the predominant mechanism of infiltration on desert pavements as a function of surface age. Presented at the American Soc. Agron meetings, Salt Lake City, UT.
- Zhu, J., M.H. Young, C.A. Cooper, D.A. Devitt. 2005. Modeling tritium vapor transport in soil profiles and subsequent tritium uptake by plants. Presented at the American Soc. Agron meetings, Salt Lake City, UT.
- Yin, J. M.H. Young. Z. Yu. 2005. Effects of time-varying soil properties and canopy structure on paleorecharge in the Mojave Desert. Presented at the Geological Society America meetings, Denver, CO.
- Holmes, C.D., R.S. Nowak, M.H. Young. 2005. Intact biological soil crust does not affect soil moisture content in the Mojave Desert. Presented at the Ecological Society of America meetings, Montreal, CA.
- Zitzer, S.F., M.H. Young. 2005. Surface emulsion impacts seed germination and winter annual vital rates in a Sonoran Desert wash community. Presented at the Ecological Society of America meetings, Montreal, CA.

- Young, M.H., D.G. Meadows, D. Gimenez, R.J. Heck, T.R. Elliot. 2004. Dynamic behavior of pore morphology using CT scanning: Preliminary results. Am. Soc. Agron National Meetings, Seattle, WA.
- Young, M.H., J.O. Goreham, J. Zimpfer, D. Wagner, S.A. Smith. 2004. Measuring water content in Mojave Desert biological soil crusts using dual-probe heat-pulse method. (Invited) Am. Soc. Agron National Meetings, Seattle, WA.
- Prim, P., D.G. Meadows, M.H. Young. 2004. Determination of interped flow and surface sealing through infiltration experiments on a 100 kA desert pavement. Geological Soc. Am. National Meetings, Denver, CO.
- Meadows, D.G., M.H. Young, E.V. McDonald. 2004. A laboratory method for determining the unsaturated hydraulic functions of individual soil peds. Am. Soc. Agron National Meetings, Seattle, WA.
- Zitzer, S.F., D.S. Shafer, M.H. Young, E.V. McDonald, and T.G. Caldwell. 2004. Changes in diversity and density of Northern Mojave plant communities during co-development of surface desert pavements and vesicular subsoil horizons across a 125,000 year-old chronosequence. Presented at the Ecological Society Meetings. Portland, OR.
- Albright W.H., M.H. Young, K.F. Pohlmann, S.F. Zitzer, 2004. Sensitivity analysis as a design tool for alternative final landfill covers. Designing, Building and Regulating Evapotranspiration (ET) Landfill Covers. U.S. Environmental Protection Agency's Remediation Technology Development Forum (RTDF) Program, Denver CO. March 9-10, 2004.
- Meadows, D.G., M.H. Young, E.V. McDonald, T.G. Caldwell. 2003. Hydraulic property determination of vesiculated soil peds in desert pavement environments. Presented at the Fall AGU meeting, San Francisco, CA.
- Caldwell, T.G., E.V. McDonald, M.H. Young, 2003 Modeling soil moisture in support of revegetation of military lands in arid regions. Presented at the Fall AGU meeting, San Francisco, CA.
- Shafer, D.S., M.H. Young, S. Zitzer, E.V. McDonald, T.G. Caldwell. 2003 Coupled environmental processes: Implications for landscape development in the northern Mojave Desert. Presented at the Fall AGU meeting, San Francisco, CA.
- Young, M.H., E.V. McDonald, T.G. Caldwell, S.G. Benner. 2003. Infiltration through desert pavements, Mojave Desert, CA, USA. Presented at the Am. Soc. Agronomy Meetings, Denver, CO (Invited).
- Cooper, C.A., M.H. Young, S. Sharpe, J.J. Miller. 2003. Numerical Simulation of Moisture Flux in Deep Unsaturated Zones. Presented at the Spring AGU meeting, Nice, France.
- Young, M.H., E.V. McDonald, T.G. Caldwell, S.G. Benner. 2003. Infiltration through desert pavements, Mojave Desert, CA, USA. Presented at the Spring AGU meeting, Nice, France.
- Miller, J.J., R.H. French, M.H. Young, and S.A. Mizell. 2003. Effect of Soil Condition on Channel Transmission Loss During Ephemeral Flow Events. American Society of Civil Engineers, Environmental and Water Resources Institute, World Water and Environmental Congress, Conference Proc, June 23-27, 2003, Philadelphia, PA.
- Dahan, O. E.V. McDonald, M.H. Young. 2002. Development of a flexible TDR probe for deep vadose zone monitoring. Presented at the Fall AGU meeting, San Francisco, CA.
- Nichols, R.L., M. H. Young, K. L. Dixon, J. Rossabi, W.K. Hyde, H. Holmes-Burns. 2002. Using Advanced Tensiometers to Monitor Temporal Variations in Pore Pressure. Presented at the Fall AGU meeting, San Francisco, CA.

- Young, M.H., H. Holmes-Burns, K. Pohlmann, R.L. Nichols. 2002. Estimating Deep Flux Using Vadose Zone Monitoring And Numerical Modeling. Extended Abstract. USDOE Technical Information Exchange, Oakland, CA.
- Pennell, K.D., A. Karagunduz, M.H. Young, 2002. Potential impacts of surfactant adjuvants on contaminant availability and transport in soils. Extended abstract. American Chemical Society Spring Meetings, Boston, MA.
- Holmes-Burns, H., D. Wyatt, M.H. Young, R.L. Nichols, J. Rossabi, B.B. Looney, J. Cook. 2002. Savannah River Site Vadose Zone Monitoring System. Extended abstract. Spectrum 2002, Reno, NV.
- Young, M.H., K.D. Pohlmann, R.L. Nichols, K.L. Dixon, H. Holmes-Burns. 2002. Estimating deep flux at a humid site in South Carolina using deterministic and Monte Carlo modeling. American Geophysical Union, Spring Meeting, Washington, DC.
- Shafer, D.S., J.J. Miller, M.H. Young, S.C. Edwards, S.E. Rawlinson. 2002. The future through the past: The use of analog sites for design criteria and long-term performance assessment of evapotranspiration landfill covers. Presented at Waste Management, Tucson, AZ.
- Young, M.H., T.C. Rasmussen, F.C. Lyons, K.D. Pennell. 2001. Optimized system to improve pumping rate stability during aquifer tests. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Naranjo, R.C. M.H. Young, R. Niswonger, J.J. Miller, R.H. French. 2001. The use of streambed temperatures to estimate transmission losses on an experimental channel in an arid environment. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Rasmussen, T.C., K.G. Haborak, M.H. Young, 2001. Estimating aquifer properties using sinusoidal pumping tests. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Shafer, D.S., J.J. Miller, S. Edwards, M.H. Young. 2001. The use of analog sites for designing and evaluating long term performance of evapotranspiration covers in the northern Mohave Desert, USA. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Young, M.H., D.M. Endale, K.D. Pennell, J.L. Steiner, D.S. Fisher, A. Amirtharajah. 2000. Subsurface transport of cryptosporidium from pastures to surface waters: 3. Hydrologic system. Agron. Abstracts., Am. Soc. Agron., Madison. WI.
- Kong, L., K.D. Pennell, M.H. Young. 2000. Subsurface transport of cryptosporidium from pastures to surface waters: 2. Transport processes. Agron. Abstracts, Am. Soc. Agron., Madison, WI.
- Endale, D.M., M.H. Young, J.L. Steiner, D.S. Fisher, K.D. Pennell, A. Amirtharajah. 2000. Subsurface transport of cryptosporidium from pastures to surface waters: 1. Field design and rationale. Agron. Abstracts., Am. Soc. Agron., Madison. WI.
- Young, M.H., D.M. Endale, K.D. Pennell, A. Amirtharajah. D.S. Fisher, J.L. Steiner. 2000. Cryptosporidium transport in small catchments used for grazing lands. AWWA Annual Conference and Exposition, Denver, CO. June 11-15, 2000.
- Young, M.H., T.C. Rasmussen, K.D. Pennell, K. Haborak, F.C. Lyons. 1999. Minimizing investigation-derived waste using sinusoidal aquifer testing. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Thomasson, M.J., P.J. Wierenga, R.L. Bassett, M.H. Young. 1999. Prediction of the wetting front advance for the Maricopa Environmental Monitoring Site, Arizona. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Karagunduz, A., K.D. Pennell, M.H. Young. 1999. Influence of surface tension reduction on

- flow and transport in unsaturated porous media. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Fisher, D.S., D.M. Endale, J.L. Steiner, M.H. Young, K.D. Pennell, A. Amiratharajah. 1999. Problems in predicting transport of cryptosporidium from grazing lands in the Southern Piedmont of the US. EPA Workshop on the Overland Migration of Cryptosporidium. 20-22 September, Piskataway/Edison, NJ.
- Young, M.H., A. Karagunduz, J. Simunek, K.D. Pennell. 1999. Modified upward infiltration method for characterizing soil hydraulic properties, Agron. Abstracts., Am. Soc. Agron., Madison. WI.
- Young, M.H. 1999. Comparison of alternative strategies for monitoring soil water conditions at disposal sites. Seminar series lecture at Penn State University, University Park, PA. (Invited).
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1998. Strategies for monitoring soil water conditions at waste disposal sites. American Geophysical Union. Fall Meeting. San Francisco, CA (Invited).
- Zou, Z-Y, M.H. Young, P.J. Wierenga. 1998. Estimation of unsaturated hydraulic properties from a deep infiltration experiment with constant flux. American Geophysical Union. Fall Meeting. San Francisco, CA.
- Young, M.H., Z-Y. Zou, P.J. Wierenga. 1998. Neutron probe calibration during field infiltration experiments. Agron. Abstracts., Am. Soc. Agron., Madison. WI.
- Karagunduz, A., K.D. Pennell, M.H. Young. 1998. Influence of surfactants on unsaturated soil hydraulic and solute transport properties. Agron. Abstracts, Am. Soc. Agron., Madison. WI.
- Wierenga, P.J., A.W. Warrick, M.H. Young, L.L. Hofmann, S.A. Musil. 1998. Detection of water and contaminants during a field-scale infiltration experiment. Extended abstract. Int'l Soil Sci. Soc. Meetings. Montpellier, France.
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1997. Measuring spatial variability of water breakthrough during field-scale infiltration experiments. American Geophysical Union. Fall Meeting. San Francisco, CA (Invited).
- Nelson, N.T., M.L. Brusseau, M.H. Young, T.D. Carlson, P.J. Wierenga. 1997. Demonstration of a gas-phase partitioning tracer test for the in-situ measurement of soil water content. American Geophysical Union. Fall Meeting. San Francisco, CA (Invited).
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1997. Monitoring soil water during a field-scale infiltration experiment. Agron. Abstracts., Am. Soc. Agron., Madison. WI. (Invited)
- Wierenga, P.J., A.W. Warrick, M.H. Young, L.L. Hofmann, S.A. Musil, 1997. Soil moisture along a 50 m transect measured with alternative sensors. American Geophysical Union. Spring Meeting. Baltimore, MD (Invited).
- Wierenga, P.J., M.L. Brusseau, M.H. Young, Z-Y Zou. 1997. Field weighing lysimeter for vadose zone transport and remediation studies. Presented at the NIEHS Superfund Basic Research Program Symposium. Feb 24-26, Chapel Hill, NC.
- Scanlon, B.R., Wierenga, P.J., M.H. Young, Goldsmith, R.S. 1996. Piston-like versus preferential flow in unsaturated porous media in an arid setting. Geol. Soc. Am. Abstracts with Programs, 28.
- Warrick, A.W., M.H. Young, S.A. Musil. P.J. Wierenga, and L.L. Hofmann. 1996. Probability of intersecting hot spots with alternative subsurface sampling patterns. Agron. Abs., Am. Soc. Agron., Madison. WI.

- Wierenga, P.J., M.H. Young, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1996. Field experiments for evaluating vadose zone monitoring systems for flow and transport models. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Young, M.H., P.J. Wierenga, A.W. Warrick, L.L. Hofmann, S.A. Musil. 1996. Factors influencing the efficiency of vadose zone monitoring systems at waste disposal sites. Agron. Abstracts., Am. Soc. Agron., Madison. WI.
- Young, M.H., P.J. Wierenga. 1996. TDR and weighing lysimetry for measuring water loss by turfgrass. South-central Section, Geological Society of America, Austin, TX. (Invited).
- Young, M.H., P.J. Wierenga. 1995. Time domain reflectometry for monitoring water use and salinity in turf. Extended abstract. Proceedings of 8th Annual Symposium of Arizona Hydrological Society. 14-16 September, Tucson, AZ.
- Young, M.H., P.J. Wierenga, C.F. Mancino. 1995. Time domain reflectometry for measuring water use and salinity in turf. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Fleming, J.B. , A.W. Warrick, M.H. Young, 1995. Three-dimensional water and solute movement in large laboratory columns. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Hendrickx, J.M.H., P. Hollanders, E. Van Zanten, P.J. Wierenga, M.H. Young, A. Osuna, T.L. Jones, J. Van Dam. 1995. Measurement and simulation of recharge rates in a bare arid soil using long term lysimeter data. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Otto, D.K., P.J. Brown, C.F. Mancino, M.H. Young, P.J. Wierenga. 1995. Development of turfgrass crop coefficients for the desert southwest. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Pan, L.H., M.H. Young, H. Wyckoff, P.J. Wierenga. 1995. Inverse method for saturated and unsaturated hydraulic property determination from upward flow data. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Young, M.H., J.B. Fleming, P.J. Wierenga, A.W. Warrick. 1994. Rapid laboratory calibration of TDR probes using upward infiltration. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Young, M.H., P.J. Wierenga. 1993. Weighing lysimeters for water use and transport studies. Agron. Abs., Am. Soc. Agron., Madison. WI.
- Wierenga, P.J., M.H. Young, R.G. Hills. 1993. Site characterization at the Las Cruces trench site, presented at the 13th Annual DOE Low-level Radioactive Waste Management Conference, Phoenix, Arizona.
- Young, M.H., P.J. Wierenga, R.G. Hills. 1992. Field evidence for piston flow at the Las Cruces trench site, Las Cruces, N.M. American Geophysical Union. Fall Meeting. San Francisco, CA.