

CURRICULUM VITA: Professor Gary L. Amy, PhD



Contact Information

Dean Distinguished Professor
College of Engineering and Science
Riggs Hall
Clemson University
Clemson, South Carolina 29632 USA
E-Mail: gamy@clemson.edu

Education

Doctor of Philosophy (Ph.D.) in Civil/Environmental Engineering
University of California at Berkeley, 1978

Master of Science (M.S.) in Civil Engineering
San Jose State University, 1971

Bachelor of Science (B.S.) in Civil Engineering
San Jose State University, 1970

Major Field

Environmental Engineering with Emphasis on Drinking Water Treatment, Wastewater Reclamation and Reuse, Seawater Desalination, and Aquatic Chemistry; Areas of Research: Membrane Technology, Innovative Adsorbents, Ozone/Advanced Oxidation, Soil Aquifer Treatment, Subsurface Contaminant Transport, Disinfection By-Products, Natural Organic Matter, Arsenic, Trace Organic Compounds, Trace Inorganic Compounds.

Employment

Dean Distinguished Professor (part-time), College of Engineering and Science,
Clemson University, Clemson, South Carolina 29632 USA (*July 1, 2014 - Present*)

Visiting Professor (part-time), Department of Chemical and Biomolecular Engineering,
National University of Singapore (*July 1, 2014 - Present*)

Emeritus Professor of Environmental Science and Engineering,
King Abdullah University of Science and Technology (KAUST)
Thuwal 23955-6900, Saudi Arabia (*July 1, 2014 – Present*)

Director of Water Desalination and Reuse Center and Professor of Environmental Science and Engineering, King Abdullah University of Science and Technology (KAUST), Thuwal, Saudi Arabia (*until June 2009 - June 2014*)

Professor of Water Supply and Sanitation, UNESCO-IHE Institute for Water Education, Delft, Netherlands (2005 – 2009)

Professor of Sanitary Engineering (zero appointment), Technical University of Delft, Delft, Netherlands, (2005 – 2009)

Emeritus Professor of Environmental Engineering, Civil, Environmental, & Architectural Engineering, University of Colorado, Boulder (2005 – Present)

Professor of Environmental Engineering, Civil, Environmental, & Architectural Engineering, University of Colorado, Boulder (1990 – 2005)

DFG Mercator Guest Professor, Department of Water Quality Control, Technical University of Berlin, Sabbatical Leave (2003-2004)

Visiting Distinguished Research Scientist, Kyoto University, Japan (Summer 2001)

Visiting Research Scientist/Engineer, Compagnie Generale des Eaux and Universite de Poitiers, France, Sabbatical Leave (1996-1997)

Professor (1989 - 1990), Associate Professor (1984-1989), and Assistant Professor (1978 - 1984), Environmental Engineering Program, University of Arizona

Visiting Research Scholar, Drinking Water Research Center, Florida International University, Miami, Florida, Sabbatical Leave (Fall Semester, 1985)

Environmental Engineer, URS Research Company, San Mateo, California (1972 -1974)

Research Grants

KAUST Projects (2009 – 2014)

KAUST Seed Fund Program: Hybrid Osmosis Process for Water Desalination and Reuse; \$200,000, 2013 – 2014; Co-PIs: Gary Amy, Rodrigo Valladares, Zhenyu Li, Lijo Francis, Muhannad Abu-Ghdaib

CGR AEA Program: Advancement of Anaerobic Membrane Bioreactor (anMBR) Technology via Quantitative Sustainable Design, \$120,000; Partner: University of Illinois at Urbana-Champaign; Co-PIs: Gary Amy and Peiyong Hong; Sept 2012 – Sept 2014

KAUST GCR AEA Program: Anaerobic Membrane Bioreactor (AnMBR) with Nanofiltration (NF) Membrane: A Novel Approach to Energy Recovery and Enhanced Performance (Fouling

Reduction and Organic Micropollutant Elimination), GCR AEA Call, \$150,000, July 1 2010 – June 30 2013, GCR Partner: University of Illinois at Urbana-Champaign; PI: G. Amy

GS E&C (Korea); Seawater Desalination Using Forward Osmosis (FO)-Reverse Osmosis Hybrid; \$250,000, 2010 – 2012; PI: G. Amy

Sabic; Alternative Treatment of Seawater Cooling Tower –Using Ozone Microbubbles and Chlorine Dioxide; \$381,000, 2011 – 2013; Co-PIs: Shahnawaz Sinha, Noredine Ghaffour, Kim Choon Ng, Hans Vrouwenvelder, Gary Amy

UNESCO-IHE and TU-Delft Projects (2005 – 2009)

From 2005, Dr. Amy was the recipient of eight major European and Dutch research grants/contracts worth approximately €1,350,000.

Prior to 2005

Before 2005, Dr. Amy was, either as a principal investigator or co-principal investigator, the recipient of about 75 research grants/contracts in North America worth about US\$6,500,000 of funding over a 26+ year period.

Awards

Nominated for Clark Water Prize Award by National Water Research Institute (2013).

Nominated for AP Black Research Award by American Water Works Association (2005).

Served as Ph.D. Dissertation Advisor to NoHwa Lee, Recipient of the First Place AWWA Academic Achievement Award for Best Dissertation, 2004.

Appointed as DFG Mercator Professor at Technical University of Berlin, 2003-2004.

Recipient of Fulbright Award for Germany, 2003-2004.

Served as Ph.D. Dissertation Advisor to Namguk Her, Recipient of the Second Place AWWA Academic Achievement Award for Best Dissertation, 2003.

Invited as Distinguished Lecturer, Korea Brain 21 Program, 2002

Appointed as Distinguished Research Scientist at Kyoto University, Summer 2001.

Co-recipient of AWWA Publication Award, Best Paper in Journal AWWA, 1999.

Co-recipient of AWWA Publication Award, Best Water Quality Division Paper, 1999.

Served as Ph.D. Dissertation Advisor to Ken Carlson, Recipient of the First Place AWWA Academic Achievement Award for Best Dissertation, 1997.

Co-recipient of the Water Environment Federation's 1996 McKee Award for WEF research journal article "Water Quality Changes during Soil Aquifer Treatment of Tertiary Effluent", 1996.

Served as Ph.D. Dissertation Director for Mohamed Siddiqui, Recipient of I.O.A. Hallopeau Award for Outstanding Dissertation in Ozone Research, 1993.

Served as Ph.D. Dissertation Director for Cynthia Paulson, Recipient of Holly Cornell Award, 1991.

Served as Ph.D. Dissertation Director for Michael R. Collins, Recipient of Second Place Academic Achievement Award, Presented by the American Water Works Association, 1986.

Served as M. S. Thesis Advisor for Stephen King, Recipient of Second Place Academic Achievement Award, Presented by the American Water Works Association, 1982.

PhD Student Supervision

Ongoing

Ongoing at KAUST: Noura Shehab (co-supervised by Pascal Saikaly and Gary Amy).

2014 Graduates:

Craig Werner, Integrating Microbial Electrochemical Technology with Forward Osmosis and Membrane Bioreactors: Low-Energy Wastewater Treatment, Energy Recovery and Water Reuse, PhD Dissertation, King Abdullah University of Science and Technology (KAUST), PhD Co-Supervisors: Gary Amy and Pascal Saikaly (June) 2014.

Ahmad AlSaadi, The Effect of Non-condensable Gases Removal on Air Gap Membrane Distillation: Experimental and Simulation Studies, PhD Dissertation, King Abdullah University of Science and Technology (KAUST), PhD Co-Supervisors: Noredine Ghaffour and Gary Amy (April) 2014.

Riaan van der Merwe, Marine monitoring and environmental management of SWRO concentrate discharge: A case study of the KAUST SWRO plant, King Abdullah University of Science and Technology (KAUST), PhD Co-Supervisors: Gary Amy and Sabine Lattemann (June) 2014.

Ahmed AlHamadat, Soil Aquifer Treatment (SAT) and Constructed Wetlands (CW) Applications Using Primary and Secondary Wastewater Effluents, PhD Dissertation, King Abdullah University of Science and Technology (KAUST), PhD Co-Supervisor: Gary Amy (June) 2014.

2013 Graduates:

Juma Hamad, Ceramic Membrane combined with Powdered Activated Carbon (PAC) or Coagulation for Treatment of Impaired Quality Waters, PhD Dissertation, King Abdullah University of Science and Technology (KAUST), PhD Supervisor: Gary Amy (August) 2013.

Chang-Won Ha, Ozonation and/or Coagulation - Ceramic Membrane Hybrid for Filtration of Impaired-Quality Source Waters, King Abdullah University of Science and Technology (KAUST), PhD Supervisor: Gary Amy (August) 2013.

Sairam Sudhakaran, Organic Micropollutants Removal from Water by Oxidation and Other Processes: QSAR Models, Decision Support System and Hybrids of Processes, King Abdullah University of Science and Technology (KAUST), PhD Supervisor: Gary Amy (August) 2013.

Valentine Uwamariyava, Adsorptive removal of heavy-metals from groundwater by iron (hydr) oxides based media, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Co-Supervisor: Gary Amy, (December) 2013.

2012 Graduates:

Saeed Baghoth, Characterizing Natural Organic Matter in Drinking Water Treatment Processes and Trains, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Co-Supervisor: Gary Amy, (November) 2012.

David de Ridder, Adsorption of Organic Micropollutants onto Activated Carbon and Zeolites, PhD Dissertation, Technical University of Delft, PhD Co-Supervisor: Gary Amy, (November) 2012.

Karin Lekkerkerker-Teunissen, Advanced Oxidation and Managed Aquifer Recharge, PhD Dissertation, Technical University of Delft, PhD Co-Supervisor: Gary Amy, (November) 2012.

2011 Graduates:

Sergio Salinas-Rodriguez, Particulate and organic matter fouling of seawater reverse osmosis systems: Characterization, modelling and applications, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Co-Supervisor: Gary Amy, (October) 2011.

Tarek Waly, Minimizing the Use of Chemicals to Control Scaling in SWRO, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Supervisor: Gary Amy, (April) 2011.

2010 Graduates:

Sung Kyu (Andrew) Maeng, Multiple Objective Treatment Aspects of Bank Filtration, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Supervisor: Gary Amy, (Oct) 2010.

Lattemann, Sabine, Development of an Environmental Impact Assessment and Decision Support System for Seawater Desalination Plants, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Supervisor: Gary Amy, (Feb) 2010.

Yangali, Victor, Rejection of Emerging Organic Contaminants by Nanofiltration and Reverse Osmosis Membranes: Effects of Fouling, Modeling, and Water Reuse, PhD Dissertation, UNESCO-IHE Institute for Water Education and Technical University of Delft, PhD Supervisor: Gary Amy, (Feb) 2010.

Prior to 2005:

Dr. Amy successfully graduated 37 Ph.D. students (ten hold academic appointments).

Professional Memberships

International Water Association (IWA)
International Desalination Association (IDA)
European Desalination Society (EDS)
American Water Works Association (AWWA)
Association of Environmental Engineering and Science Professors (AEESP)
Water Reuse Association (WRA)

Committees

Extramural Committees

Member, International Desalination Association (IDA) R&D Committee, 2009 – Present
Member, IDA Scholarship, Education and Training Committee, 2009 - Present
Member, Research Advisory Committee (RAC) of the WateReuse Foundation, 2011 – Present.

Refereed Publications/Journal Articles

Dr. Amy has *over 400* refereed publications in international and national journals including Environmental Science and Technology, Water Research, Journal of Membrane Science, Separation and Purification Technology, Carbon, Journal of Environmental Engineering, Journal of the American Water Works Association, Journal of Membrane Science, Ozone: Science and Engineering, Journal of the Water Environment Federation, Colloids and Surfaces, Water Air, and Soil Pollution, Ground Water, Journal of Contaminant Hydrology, Chemosphere, Organic Geochemistry, Applied Energy, Water Science and Technology, Desalination, Aqua, Science of the Total Environment, Revue des Sciences de l'Eau, and Environmental Technology Letters.

h-Factor

From 1996, based on 422 Journal Articles: 50, as reported by Scopus.

2014 Articles:

van der Merwe, R., Hammes, F., Lattemann, S., Amy, G., Flow cytometric assessment of microbial abundance in the near-field area of seawater reverse osmosis concentrate discharge, *Desalination*, in press, 2014.

Francis, L., Ghaffour, N., Alsaadi, A.S., Nunes, S.P., Amy, G.L., Performance evaluation of the DCMD desalination process under bench scale and large scale module operating conditions, *Journal of Membrane Science*, Volume 455, 1 April 2014, Pages 103-112, 2014.

Francis, L., Ghaffour, N., Alsaadi, A.S., Nunes, S.P., Amy, G.L., PVDF hollow fiber and nanofiber membranes for fresh water reclamation using membrane distillation, *Journal of Materials Science*, Volume 455, 1 April 2014, Pages 103-112, 2014.

Li, Z., Valladares Linares, R., Abu-Ghdaib, M., Yangali-Quintanilla, V., Amy, G., Osmotically driven membrane process for the management of urban runoff in coastal regions, *Water Research*, Volume 48, Issue 1, 1 January 2014, Pages 200-209, 2014.

Thu, K., Kim, Y.-D., Amy, G., Chun, W.G., Ng, K.C., A synergetic hybridization of adsorption cycle with the multi-effect distillation (MED), *Applied Thermal Engineering*, Volume 62, Issue 1, 2014, Pages 245-255, 2014.

2013 Articles:

Francis, L., Ghaffour, N., Alsaadi, A.A., Amy, G.L., Material gap membrane distillation: A new design for water vapor flux enhancement, *Journal of Membrane Science*, Volume 448, 15 December 2013, Pages 240-247, 2013.

Shehab, N., Li, D., Amy, G.L., Logan, B.E., Saikaly, P.E., Characterization of bacterial and archaeal communities in air-cathode microbial fuel cells, open circuit and sealed-off reactors, *Applied Microbiology and Biotechnology*, Volume 97, Issue 22, December 2013, Pages 9885-9895, 2013.

Valladares Linares, R., Li, Z., Abu-Ghdaib, M., Amy, G., Vrouwenvelder, J.S., Water harvesting from municipal wastewater via osmotic gradient: An evaluation of process performance, *Journal of Membrane Science*, Volume 447, 5 November 2013, Pages 50-56, 2013.

Yoon, M.K., Drewes, J.E., Amy, G.L., Fate of bulk and trace organics during a simulated aquifer recharge and recovery (ARR)-ozone hybrid process, *Chemosphere*, Volume 93, Issue 9, November 2013, Pages 2055-2062, 2013.

Wei, C.-H., Amy, G., Sludge Water Characteristics Under Different Separation Methods from a Membrane Bioreactor, *Separation Science and Technology*, Separation Science and Technology, Volume 48, Issue 17, November 2013, Pages 2540-2548, 2013.

Maeng, S.K., Sharma, S.K., Lee, J.W., Amy, G.L., Fate of 17β -estradiol and 17α -ethinylestradiol in batch and column studies simulating managed aquifer recharge, *Journal of Water Supply: Research and Technology - AQUA*, Volume 62, Issue 7, 2013, Pages 409-416, 2013.

Alsaadi, A.S., Ghaffour, N., Li, J.-D., Maab, H., Amy, G.L., Modeling of air-gap membrane distillation process: A theoretical and experimental study, *Journal of Membrane Science*, Volume 445, 5 October 2013, Pages 53-65, 2013.

Maab, H., Al Saadi, A., Francis, L., Amy, G.L., Nunes, S.P., Polyazole hollow fiber membranes for direct contact membrane distillation, *Industrial and Engineering Chemistry Research*, Volume 52, Issue 31, 7 August 2013, Pages 10425-10429, 2013.

Missimer, T.M., Ghaffour, N., Dehwah, A.H.A., Maliva, R.G., Amy, G., Subsurface intakes for seawater reverse osmosis facilities: Capacity limitation, water quality improvement, and economics, *Desalination*, Volume 322, 1 August 2013, Pages 37-51, 2013.

Salifu, A., Petrusevski, B., Ghebremichael, K., (...), Aubry, C., Amy, G.L., Aluminum (hydr)oxide coated pumice for fluoride removal from drinking water: Synthesis, equilibrium, kinetics and mechanism, *Chemical Engineering Journal*, Volume 228, 5 July 2013, Pages 63-74, 2013.

Sudhakaran, S., Maeng, S.K., Amy, G., Hybridization of natural systems with advanced treatment processes for organic micropollutant removals: New concepts in multi-barrier treatment, *Chemosphere*, Volume 92, Issue 6, July 2013, Pages 731-737, 2013.

Valladares Linares, R., Li, Z., Yangali-Quintanilla, V., Li, Q., Amy, G., Cleaning protocol for a FO membrane fouled in wastewater reuse, *Desalination and Water Treatment*, Volume 51, Issue 25-27, July 2013, Pages 4821-4824, 2013.

Hamad, J.Z., Ha, C., Kennedy, M.D., Amy, G.L., Application of ceramic membranes for seawater reverse osmosis (SWRO) pre-treatment, *Desalination and Water Treatment*, Volume 51, Issue 25-27, July 2013, Pages 4881-4891, 2013.

Abel, C.D.T., Sharma, S.K., Maeng, S.K., Kennedy, M.D., Amy, G.L., Fate of bulk organic matter, nitrogen, and pharmaceutically active compounds in batch experiments simulating soil aquifer treatment (SAT) using primary effluent, *Water, Air, and Soil Pollution*, Volume 224, Issue 7, 2013, Article number 1628, 2013.

Ghaffour, N., Missimer, T.M., Amy, G.L., Combined desalination, water reuse, and aquifer storage and recovery to meet water supply demands in the GCC/MENA region, *Desalination and Water Treatment*, Volume 51, Issue 1-3, 2013, Pages 38-43, 2013.

Lattemann, S., Amy, G., Marine monitoring surveys for desalination plants-A critical review, *Desalination and Water Treatment*, Volume 51, Issue 1-3, 2013, Pages 233-245, 2013.

Al-Mashharawi, S.K., Ghaffour, N., Al-Ghamdi, M., Amy, G.L., Evaluating the efficiency of different microfiltration and ultrafiltration membranes used as pretreatment for Red Sea water reverse osmosis desalination, *Desalination and Water Treatment*, Volume 51, Issue 1-3, 2013, Pages 617-626, 2013.

Francis, L., Maab, H., Alsaadi, A., Ghaffour, N., Amy, G.L., Fabrication of electrospun nanofibrous membranes for membrane distillation application, *Desalination and Water Treatment*, Volume 51, Issue 7-9, 2013, Pages 1337-1343, 2013.

Villacorte, L.O., Ekowati, Y., Winters, H., Amy, G., Schippers, J.C., Kennedy, D., Characterisation of transparent exopolymer particles (TEP) produced during algal bloom: A membrane treatment perspective, *Desalination and Water Treatment*, Volume 51, Issue 4-6, 2013, Pages 1021-1033, 2013.

Li, S., Heijman, S.G.J., Verberk, J.Q.J.C., Amy, G.L., van Dijk, J.C., Practical experience of backwashing with SWRO permeate for UF fouling control, *Desalination and Water Treatment*, Volume 51, Issue 1-3, 2013, Pages 432-436, 2013.

van der Merwe, R., Lattemann, S., Amy, G., A review of environmental governance and its effects on concentrate discharge from desalination plants in the Kingdom of Saudi Arabia, *Desalination and Water Treatment*, Volume 51, Issue 1-3, 2013, Pages 262-272, 2013.

Rachman, R.M., Ghaffour, N., Wali, F., Amy, G.L., Assessment of silt density index (SDI) as fouling propensity parameter in reverse osmosis (RO) desalination systems, *Desalination and Water Treatment*, Volume 51, Issue 4-6, 2013, Pages 1091-1103, 2013.

Sudhakaran, S., Amy, G.L., QSAR models for oxidation of organic micropollutants in water based on ozone and hydroxyl radical rate constants and their chemical classification, *Water Research*, 47 (3) , pp. 1111-1122 (2013).

Thu, K., Kim, Y.-D., Amy, G., Chun, W.G., Ng, K.C., A hybrid multi-effect distillation and adsorption cycle, *Applied Energy* 104 , pp. 810-821 (2013).

De Ridder, D.J., Verliefde, A.R.D., Schoutteten, K., Van Der Linden, B., Heijman, S.G.J., Beurroies, I., Denoyel, R., Amy, G., Van Dijk, J.C., Relation between interfacial energy and adsorption of organic micropollutants onto activated carbon, *Carbon* 53 , pp. 153-160 (2013).

Werner, C.M., Logan, B.E., Saikaly, P.E., Amy, G.L., Wastewater treatment, energy recovery and desalination using a forward osmosis membrane in an air-cathode microbial osmotic fuel cell, *Journal of Membrane Science* 428 , pp. 116-122 (2013).

Ghaffour, N., Missimer, T.M., Amy, G.L., Technical review and evaluation of the economics of water desalination: Current and future challenges for better water supply sustainability, *Desalination* 309 , pp. 197-207 (2013).

Sudhakaran, S., Lattemann, S., Amy, G.L., Appropriate drinking water treatment processes for organic micropollutants removal based on experimental and model studies - A multi-criteria analysis study, *Science of the Total Environment* 442 , pp. 478-488 (2013).

Ng, K.C., Thu, K., Kim, Y., Chakraborty, A., Amy, G., Adsorption desalination: An emerging low-cost thermal desalination method, *Desalination* 308 , pp. 161-179 (2013).

2012 Articles:

Rahmawati, K., Ghaffour, N., Aubry, C., Amy, G.L., Boron removal efficiency from Red Sea water using different SWRO/BWRO membranes, *Journal of Membrane Science* 423-424 , pp. 522-529 (2012).

Maab, H., Francis, L., Al-saadi, A., Aubry, C., Ghaffour, N., Amy, G., Nunes, S.P., Synthesis and fabrication of nanostructured hydrophobic polyazole membranes for low-energy water recovery, *Journal of Membrane Science* 423-424 , pp. 11-19 (2012).

Salifu, A., Petrusevski, B., Ghebremichael, K., Buamah, R., Amy, G., Multivariate statistical analysis for fluoride occurrence in groundwater in the Northern region of Ghana, *Journal of Contaminant Hydrology* 140-141 , pp. 34-44 (2012).

Maeng, S.K., Sharma, S.K., Abel, C.D.T., Magic-Knezev, A., Song, K.-G., Amy, G.L., Effects of effluent organic matter characteristics on the removal of bulk organic matter and selected pharmaceutically active compounds during managed aquifer recharge: Column study, *Journal of Contaminant Hydrology* 140-141 , pp. 139-149 (2012).

Li, S., Heijman, S.G.J., Verberk, J.Q.J.C., Amy, G.L., Van Dijk, J.C., Seawater ultrafiltration fouling control: Backwashing with demineralized water/SWRO permeate, *Separation and Purification Technology* 98 , pp. 327-336 (2012).

Li, S., Heijman, S.G.J., Verberk, J.Q.J.C., Verliefde, A.R.D., Amy, G.L., Van Dijk, J.C., Removal of different fractions of NOM foulants during demineralized water backwashing, *Separation and Purification Technology* 98 , pp. 186-192 (2012).

Abel, C.D.T., Sharma, S.K., Malolo, Y.N., Maeng, S.K., Kennedy, M.D., Amy, G.L., ation of bulk organic matter, nutrients (N and P), and pathogen indicators during soil passage: Effect of temperature and redox conditions in simulated soil aquifer treatment (SAT), *Water, Air, and Soil Pollution* 223 (8) , pp. 5205-5220 (2012).

Maeng, S.K., Abel, C.D.T., Sharma, S.K., Park, N.S., Amy, G.L., Removal of geosmin and 2-methylisoborneol during managed aquifer recharge: Batch and column studies, *Journal of Water Supply: Research and Technology - AQUA* 61 (4) , pp. 220-227 (2012).

Wei, C.-H., Laborie, S., Ben Aim, R., Amy, G., utilization of silt density index (SDI) measurements for seawater pre-treatment, *Journal of Membrane Science* 405-406 , pp. 212-218 (2012).

Missimer, T.M., Drewes, J.E., Amy, G., Maliva, R.G., Keller, S., Restoration of Wadi Aquifers by Artificial Recharge with Treated Waste Water, *Ground Water* 50 (4) , pp. 514-527 (2012).

Radhakrishnan, M., Pathirana, A., Ghebremichael, K., Amy, G., Modelling formation of disinfection by-products in water distribution: Optimisation using a multi-objective evolutionary algorithm, *Journal of Water Supply: Research and Technology - AQUA* 61 (3) , pp. 176-188 (2012).

Rodríguez, S.G.S., Kennedy, M.D., Amy, G.L., Schippers, J.C., dependency of particulate/colloidal fouling in seawater reverse osmosis systems, *Desalination and Water Treatment* 42 (1-3) , pp. 155-162 (2012).

Sharma, S.K., Chaweza, D., Bosuben, N., Holzbecher, E., Amy, G., Framework for feasibility assessment and performance analysis of riverbank filtration systems for water treatment, *Journal of Water Supply: Research and Technology - AQUA* 61 (2) , pp. 73-81 (2012).

Valladares Linares, R., Yangali-Quintanilla, V., Li, Z., Amy, G., NOM and TEP fouling of a forward osmosis (FO) membrane: Foulant identification and cleaning, *Journal of Membrane Science* 421-422 , pp. 217-224 (2012).

De Ridder, D.J., Verliefde, A.R.D., Heijman, B.G.J., Gelin, S., Pereira, M.F.R., Rocha, R.P., Figueiredo, J.L., Amy, G., Van Dijk, H.C., A thermodynamic approach to assess organic solute adsorption onto activated carbon in water, *Carbon* 50 (10) , pp. 3774-3781 (2012).

Moed, D.H., Van Halem, D., Verberk, J.Q.J.C., Amy, G.L., Van Dijk, J.C., Influence of groundwater composition on subsurface iron and arsenic removal, *Water Science and Technology* 66 (1) , pp. 173-178 (2012).

Sudhakaran, S., Calvin, J., Amy, G.L., models for the removal of organic micropollutants in four different river water matrices, *Chemosphere* 87 (2) , pp. 144-150 (2012).

De Ridder, D.J., Verberk, J.Q.J.C., Heijman, S.G.J., Amy, G.L., Van Dijk, J.C., Zeolites for nitrosamine and pharmaceutical removal from demineralised and surface water: Mechanisms and efficacy, *Separation and Purification Technology* 89 , pp. 71-77 (2012).

Ge, Q., Su, J., Amy, G.L., Chung, T.-S., Exploration of polyelectrolytes as draw solutes in forward osmosis processes, *Water Research* 46 (4), pp. 1318-1326 (2012).

Wang, K.Y., Chung, T.-S., Amy, G., Developing thin-film-composite forward osmosis membranes on the PES/SPSf substrate through interfacial polymerization, *AIChE Journal* 58 (3), pp. 770-781 (2012).

Waly, T., Kennedy, M.D., Witkamp, G.-J., Amy, G., Schippers, J.C., The role of inorganic ions in the calcium carbonate scaling of seawater reverse osmosis systems, *Desalination* 284 , pp. 279-287 (2012).

Li, Z.-Y., Yangali-Quintanilla, V., Valladares-Linares, R., Li, Q., Zhan, T., Amy, G., Flux patterns and membrane fouling propensity during desalination of seawater by forward osmosis, *Water Research* 46 (1), pp. 195-204 (2012).

van Halem, D., Moed, D.H., Verberk, J.Q.J.C., Amy, G.L., van Dijk, J.C., Cation exchange during subsurface iron removal, *Water Research* 46 (2), pp. 307-315 (2012).

2011 Articles:

van Halem, D., Vet, W.d., Verberk, J., Amy, G., van Dijk, H., Characterization of accumulated precipitates during subsurface iron removal, *Applied Geochemistry*, Volume 26, Issue 1, January 2011, Pages 116–124 (2011).

Yangali-Quintanilla, V., Li, Z., Valladares, R., Li, Q., Amy, G., Indirect desalination of Red Sea water with forward osmosis and low pressure reverse osmosis for water reuse, *Desalination* 280 (1-3), pp. 160-166 (2011).

Valladares Linares, R., Yangali-Quintanilla, V., Li, Z., Amy, G., Rejection of micropollutants by clean and fouled forward osmosis membrane, *Water Research* 45 (20), pp. 6737-6744 (2011).

Waly, T., Kennedy, M.D., Witkamp, G.-J., Amy, G., Schippers, J.C., Predicting and measurement of pH of seawater reverse osmosis concentrates, *Desalination* 280 (1-3), pp. 27-32 (2011).

Li, S., Heijman, S.G.J., Verberk, J.Q.J.C., Le Clech, P., Lu, J., Kemperman, A.J.B., Amy, G.L., van Dijk, J.C., Fouling control mechanisms of demineralized water backwash: Reduction of charge screening and calcium bridging effects, *Water Research* 45 (19), pp. 6289-6300 (2011).

Missimer, T.M., Drewes, J.E., Maliva, R.G., Amy, G., Aquifer Recharge and Recovery: Groundwater Recharge Systems for Treatment, Storage, and Water Reclamation, *Ground Water* 49 (6), pp. 771 (2011).

Baghoth, S.A., Sharma, S.K., Guitard, M., Heim, V., Croué, J.-P., Amy, G.L., Removal of NOM-constituents as characterized by LC-OCD and F-EEM during drinking water treatment, *Journal of Water Supply: Research and Technology - AQUA* 60 (7), pp. 412-424 (2011).

Sinha, S., Amy, G., Yoon, Y., Her, N., Arsenic removal from water using various adsorbents: Magnetic ion exchange resins, hydrous iron oxide particles, granular ferric hydroxide, activated

alumina, sulfur modified iron, and iron oxide-coated microsand, *Environmental Engineering Research* 16 (3), pp. 165-173 (2011).

Maeng, S.K., Sharma, S.K., Abel, C.D.T., Magic-Knezev, A., Amy, G.L., Role of biodegradation in the removal of pharmaceutically active compounds with different bulk organic matter characteristics through managed aquifer recharge: Batch and column studies, *Water Research* 45 (16), pp. 4722-4736 (2011).

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J. Drewes, G. Amy, Water Reuse in the Kingdom of Saudi Arabia – Status, Prospects and Research Needs, Water Reuse & Desalination Research Conference, May 16 – 17, 2011, Las Vegas, Presentation (2011).

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Nam, S., Amy, G., Quantitative Characterization of Natural Organic Matter (NOM) by Fluorescence Parallel Factor Analysis (PARAFAC), IWA LET, Zurich (2008).

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Banerjee, K., Amy, G., Jekel, M., Sperlich, Al., Blumenschein, C., Buisson, H., Impact of phosphate and silica and comparative assessment of adsorption technologies for arsenic removal, IWA World Congress, Vienna (2008).

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Amy, G., Krasner, S., Westerhoff, P., Drewes, J., Jekel, M., Croue, J., Wastewater-impacted drinking water sources: The exception or the rule?, AWWA WQTC, Cincinnati (2008).

Amy, Selected membrane research topics: Ceramic membranes, organic matter fouling, and organic micropollutant rejection, AWWA WQTC, Cincinnati (2008).

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Waly, T., Saleh, S., Kennedy, M., Witcamp, G., Amy, G., Schippers, J., Will carbonate really scale in seawater reverse osmosis, EuroMed 2008: Desalination for Clean Water and Energy, Dead Sea, Jordan (2008).

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Plenary and Keynote Presentations

Dr. Amy has presented numerous invited papers in Japan, China, Korea, Taiwan, Singapore, Netherlands, Switzerland, Germany, France, Norway, Great Britain, Australia, Canada, Saudi Arabia, Abu Dhabi, Qatar, Bahrain, and throughout the United States.

2014 Presentations:

Amy, G., Advances in Desalination: Processes, Energy, and Materials, Water-Hub Seminar Series (Singapore), January 2014.

2013 Presentations:

Amy, G., Forward Osmosis (FO) and FO Hybrids, Saudi Water and Power Forum (Jeddah), December 2013.

Amy, G., Missimer, T., Groundwater Aquifer Recharge and Recovery (ARR): An Adaptation Strategy for Climate Change-Induced Water Scarcity in the KSA/GCC Region, Presentation, Water Arabia 2013, Khobar (Saudi Arabia), February 2013.

Amy, G., Drewes, J., Sustainable Water Management for the City of the Future: Reinventing Urban Water Infrastructure, Presentation, Symposium on Sustainable Water Management as an Adaptation to the Challenge of Climate Change, KAUST, January 2013.

Amy, G., Sinha, S., Lattemann, S., Missimer, T., Ng, K.C., Ghaffour, N., Presentation, Low-Energy Seawater Desalination: Renewable Energy-Driven and New Emerging Technologies, International Water Summit, Abu Dhabi, January 2013.

2012 Presentations:

Amy, G., Sinha, S., Lattemann, S., Missimer, T., Ng, K.C., Ghaffour, N., Seawater Desalination Using Renewable Energy: Solar Geothermal, and Wind, Presentation, COP18 Climate Change Conference, Doha, December 2012.

Amy, G., Strategic Research Needs in Wastewater Reuse, Presentation, Pre-Forum Session: Moving Wastewater Reuse Forward in Saudi Arabia, Saudi Water and Power Forum, Jeddah, December 2012.

Amy, G., Lattemann, S., The Greening of SWRO and Emerging Low-Energy Trends in Seawater Desalination, Presentation, Workshop Clean, Green, and Sustainable: Lower-Energy Desalination and Membrane Regeneration for the Global Water Industry, Singapore, July 2012.

Amy, G., Role of Membrane Technology for Water Reuse, Presentation, Workshop on Moving Water Reuse Forward in the GCC Region, Muscat (Oman), April 2012.

Amy, G., Drewes, J., Missimer, T., Groundwater Aquifer Recharge and Recovery (ARR) for (Municipal) Wastewater Reclamation/Reuse, Petroleum Environmental Research Forum (PERF), Dammam (Saudi Arabia), March 2012.

Groundwater Aquifer Recharge and Recovery (ARR) for (Municipal) Wastewater Reclamation/Reuse, Gary Amy, Jörg Drewes, and Thomas Missimer, Petroleum Environmental Research Forum (PERF), March 10, 2012, Dammam.

2011 Presentations:

Application of Innovative Natural Organic Matter Characterization Protocols to Membrane Fouling Assessment and Control: Seawater, Wastewater, and Freshwater Sources, IWA Conference on Membrane Technology. October 4 – 7, Aachen, Germany (2011).

New Technologies for Desalination, G. Amy, International Water Association (IWA) Leading Edge Technologies (LET) Conference, June 6 – 11, 2011, Amsterdam, Plenary Presentation (2011).

Meeting the Challenges of Future Water Scarcity: Exploiting Impaired-Quality Sources, G. Amy, International Symposium on Managed Aquifer Recharge (ISMAR), October 9 – 13, 2010, Abu Dhabi, Plenary Presentation (2011).

Emerging Trends and Technologies in Exploiting Impaired Quality (Seawater and Wastewater Effluent) Sources for Drinking Water, G. Amy, Australian Water Association (AWA) Membranes and Desalination Specialty Conference, February 9 – 11, 2011, Brisbane, Keynote Presentation (2011).

Soil Aquifer Treatment (SAT): A Robust, Multi-Contaminant Process in Indirect Potable Reuse, G. Amy, Australian Water Association (AWA) Membranes and Desalination Specialty Conference, February 9 – 11, 2011, Brisbane, Keynote Presentation (2011).

2010 Presentations:

Amy, G., Emerging Trends and Technologies in Exploiting *Impaired Quality* (Seawater and Wastewater Effluent) Sources for Drinking Water, Key Note Presentation, NEDO Water Solutions Symposium, (Feb) 2010, Tokyo.

Amy, G., Pretreatment Options for Controlling *Organic Foulants* in Seawater Reverse Osmosis (SWRO), Water Desalination Conference in the Arab Countries (ARWADEX), Key Note Presentation, (April) 2010, Riyadh.

Amy, G., Water Desalination: Present Practice, Future Trends, and Research Needs, Symposium on Economic and Technological Challenges in Membrane-Based Water Desalination (KAUSTIS), Key Note Presentation, (May) 2010, Shanghai.

2009 Presentations:

Amy, G., Is Nanofiltration a Robust Barrier for Organic Micropollutants?, Plenary Presentation, IWA Membrane Technologies Conference, (Sept) 2009, Beijing.

Amy, G., Recent Trends in Membrane-Based Desalination, and Water Reuse Applications, Invited Presentation, Saudi Water and Power Forum (SWPF), (Oct) 2009, Jeddah

Prior to 2009:

Seventy four.