**CURRICULUM VITAE**

Klaus Benjamin Hagedorn, PhD

Assistant Professor, Department of Geological Sciences

California State University, Long Beach

Long Beach, CA 90840-9506

Phone: 562-985-4198

Email: Klaus.Hagedorn@csulb.edu

**EDUCATION**

**10/2010:** Ph.D. Aqueous Geochemistry, Monash University, Melbourne, Australia

**02/2006:** M.S. (Dipl.-Geol.) *(cum laude)* Geology,RWTH University, Aachen, Germany

**PROFESSIONAL EXPERIENCE**

**Teaching and Research Appointments**

**08/2013 - present:** Assistant Professor - Environmental Geochemistry, Department of Geological Sciences, California State University, Long Beach

**09/2010 - 09/2011:** Postdoctoral Research Scholar, School of Ocean and Earth Sciences and Technology, University of Hawaii at Manoa

**07/2009 - 09/2010:** Postdoctoral Research Scholar, Water Resources Research Center, University of Hawaii at Manoa

**06/2006 - 07/2009:** Teaching Assistant, School of Geosciences, Monash University, Melbourne, Australia

**03/2008 - 07/2008:** Teaching Assistant, School of Earth Sciences, The University of Melbourne, Australia

**06/2006 - 01/2007:** Research Laboratory Assistant, School of Geosciences, Monash University, Melbourne, Australia

**10/2002 - 02/2006:** Teaching Assistant, Geological Institute, RWTH University, Aachen, Germany

**Non-Academic Employment**

**09/2011 - 07/2013:** Senior Staff Hydrogeologist - Litigation Support and Groundwater Analysis Group, *Geosyntec Consultants*, Huntington Beach, California

**07/2007 - 06/2009:** Hydrogeologist (part-time) - Groundwater Remediation Group, *Earth Systems*, Melbourne, Australia

**10/2002 - 07/2005:** Hydrogeologist (intern) - Soil Contamination Remediation Group, *HYDR.O. - Geologists and Engineers*, Aachen, Germany

**SCHOLARSHIPS AND AWARDS**

**03/2006 - 07/2009:** Monash Graduate Scholarship and Endeavour International Postgraduate Research Scholarship for tuition fees and living allowance for Ph.D. studies in Melbourne, Australia

**12/2008:** Monash Research Travel Scholarship for research presentation at 2008 American Geophysical Union Fall Meetings in San Francisco, USA

**12/2007:** Monash Research Travel Scholarship for research presentation at 2007 American Geophysical Union Fall Meetings in San Francisco, USA

**01/2007:** RWTH ‘Heitfeld’ Prize for outstanding M.S. thesis

**05/2005:** M.S. Thesis Travel Scholarship DAAD (German Academic Exchange Service) for two months fieldwork in Namibia (2005)

**08/2003 - 06/2004:** Student Travel and Tuition Scholarship DAAD (German Academic Exchange Service) for two semester (Fall 2003 - Spring 2004) graduate study exchange at University of Hawaii at Manoa, USA

**PROFESSIONAL ORGANIZATION MEMBERSHIPS**

**2015 - present:** Geological Society of America (GSA)

**2011 - present:** California Groundwater Resources Association (GRA)

**2009 - present:** Geochemical Society (GS)

**2007 - present:** American Geophysical Union (AGU)

**2005 - present:** German Geological Society (DGG)

**PROFESSIONAL DEVELOPMENT**

**05/2015:** *Evaluation of Bioremediation and Biodegradation of Chemical Contaminants using a variety of Analytical Techniques including Stable Isotopes.* 1-day short course by R. Paul Philp at Battelle 2015 Bioremediation Symposium, Miami, FL

**05/2015:** *Using the NAPL Depletion Model for Estimating Timeframes of Natural and Enhanced Attenuation*. 1-day short course by Grant R. Carey at Battelle 2015 Bioremediation Symposium, Miami, FL

**08/2014 - 05/2015:** CSULB CNSM *Faculty Learning Community* on impact of best practices in teaching

**10/2014:** *Teaching & Learning in a Diverse Campus Community.* CSULB Faculty Development Brown Bag Session, Long Beach, CA

**03/2013:** *Fundamentals of MODFLOW-USG, an Unstructured Grid Version of MODFLOW.* Groundwater Resources Association of California workshop by S. Panday, Redwood City, CA

**02/2012:** Nielsen Environmental Field School *North American Environmental Field Conference and Exposition*, San Diego, CA

**10/2011:** 40-hour *Hazardous Waste Operations and Emergency Response* (HAZWOPER) online course

**09/2005:** 3D Seismic Interpretation Course: *The Application of Kingdom Suite* by Shell International, Aachen, Germany

**TEACHING ACTIVITY**

**Teaching Assignment - Undergraduate Level**

**Spring 2018:** GEOL 191 (3 units), Air and Water Pollution (15 students)

GEOL 280 (3 units), Water Resources and Society (33 students)

**Fall 2017:** GEOL 191 (3 units), Air and Water Pollution (21 students)

GEOL 110 (3 units), Natural Disasters (50 students)

GEOL 461 (3 units), Introduction to Geochemistry (13 students)

**Spring 2017:** GEOL 191 (3 units), Air and Water Pollution (17 students)

GEOL 110 (3 units), Natural Disasters (82 students)

**Fall 2016:** GEOL 191 (3 units), Air and Water Pollution (17 students)

GEOL 461 (3 units), Introduction to Geochemistry (18 students)

**Spring 2016:** GEOL 300 (3 units), Earth Systems and Global Change (22 students)

**Fall 2015:** GEOL 461 (3 units), Introduction to Geochemistry (15 students)

**Spring 2015:** GEOL 461 (3 units), Introduction to Geochemistry (19 students)

**Spring 2014:** GEOL 461 (3 units), Introduction to Geochemistry (23 students)

**Fall 2013:** GEOL 110 (3 units), Natural Disasters, (116 students)

**Teaching Assignment - Graduate Level**

**Spring 2018:** GEOL 554 (3 units), Environmental Geochemistry (8 students)

**Spring 2016:** GEOL 554 (3 units), Environmental Geochemistry (6 students)

**Fall 2013:** GEOL 554 (3 units), Environmental Geochemistry (17 students)

**Field of Special Competence**

Geochemistry, Environmental Science, Hydrogeology, Natural Hazards, Urban Geology

**ACDEMIC MENTORING AND ADVISING**

**Undergraduate Students**

**Spring 2018:** Jillian Malone GEOL 496 Independent Study Advisor

 Merik Ruane GEOL 496 Independent Study Advisor

**Fall 2017:** Veronica Allen GEOL 496 Independent Study Advisor

 Merik Ruane GEOL 496 Independent Study Advisor

**Spring 2017:** Natalie Carke GEOL 496 Independent Study Advisor

Merik Ruane GEOL 496 Independent Study Advisor

**Fall 2016:** Natalie Carke GEOL 496 Independent Study Advisor

Tri Nguyen GEOL 496 Independent Study Advisor

**Spring 2016:** Kirsten Faulkner GEOL 496 Independent Study Advisor

David Finney GEOL 496 Independent Study Advisor

Jeanie Amezcua GEOL 496 Independent Study Advisor

**Fall 2015:** Kirsten Faulkner GEOL 496 Independent Study Advisor

Joshua Kajiyama GEOL 496 Independent Study Advisor

Andrew Thomas GEOL 496 Independent Study Advisor

Georgie Aronson GEOL 496 Independent Study Advisor

**Summer 2015:** Tony Sandoval Supervisor of ORSP-grant-supported lab work

**Spring 2015:** Leticia Martin GEOL 496 Independent Study Advisor

Kirsten Faulkner GEOL 496 Independent Study Advisor

Jeanie Amezcua GEOL 496 Independent Study Advisor

**Fall 2014:** Stephanie Platt GEOL 496 Independent Study Advisor

Scott Brito GEOL 496 Independent Study Advisor

Tyler Burt GEOL 496 Independent Study Advisor

**Spring 2014:** Sara Price GEOL 496 Independent Study Advisor

Leticia Martin GEOL 496 Independent Study Advisor

Brendan Neel GEOL 496 Independent Study Advisor

**Spring 2014:** Tracey LaRocco GEOL 496 Independent Study Advisor

Mounga Nonu GEOL 496 Independent Study Advisor

**Fall 2013:** Tracey LaRocco GEOL 496 Independent Study Advisor

**Graduate Students**

**08/2016 - present:** Jack Donelan Masters Thesis Advisor

**08/2016 - present:** Kirsten Faulkner Masters Thesis Advisor

**08/2016 - present:** Scott Brito Masters Thesis Advisor

**08/2014 - 01/2018:** Jeanette Harlow Masters Thesis Advisor

**08/2014 - present:** Carolyn Hillman Masters Thesis Advisor

**08/2014 - present:** Brendan Neel Masters Thesis Advisor

**Completed Graduate Student Theses**

**Winter 2017:** Thesis title:“Assessing spatial and temporal patterns of groundwater recharge on Catalina Island, California, from soil water balance modeling”. Graduate Student: Jeanette Harlow.

**RESEARCH ACTIVITY**

**Grant Proposals in Review**

**Since 11/2017:** *Constraining the provenance of saline groundwater on Catalina Island (California) from multivariate statistics of dissolved major ions*. Funding Source: CNSM RSCA (3 units of CSULB assigned time). Role: PI.

**Completed Research Grants**

**06/2017 - 08/2017:** *The response of carbonate-island groundwater systems to extreme weather events: constraints from groundwater CFC-12 data of the Florida Keys.* Funding Source: CSULB ($4,650 summer stipend). Role: PI.

**01/2017 - 05/2017:** Inverse modeling of recharge in arid groundwater basins – A case study from the Indian Wells Valley, California. Funding Source: CNSM RSCA (3 units of CSULB assigned time). Role: PI.

**08/2015 - 01/2016:** *Groundwater Recharge and Cloud Water Interception in California’s Watersheds.* Funding Source: Project HOGAR–2015-2016 Grant Mentoring Program for Faculty (3 units of CSULB assigned time). Role: PI.

**05/2015 - 10/2015:** *Mapping/Modeling Easter Island Hydrology as a Tool for Sustainable Management of Island Groundwater*. Funding Source: CSULB Office of Research and Sponsored Programs ($14,660). Role: Co-PI.

**10/2013 - 01/2014**: *Methane source assessment at Midway/Settler’s Hill landfills, Kane County, Illinois*. Funding Source: Waste Management Inc. ($5,000). Role: PI.

**10/2013 - 11/2013:** *Characterization of scale forming mechanisms in leachate extraction pumps and conveyance pipes*. Funding Source: Waste Management Inc. ($4,100). Role: PI.

**04/2011 - 09/2011:** *Lahaina Groundwater Tracer Study, Lahaina, Maui, Hawaii*. Funding Sources: U.S. Army Corps of Engineers, State of Hawaii Department of Health and U.S. EPA ($250,000). Role: Senior Personnel, PI: C. Glenn.

**01/2010 - 05/2011:** *Refining the Sustainable Groundwater Yield for Jeju Island, Korea. Validation of Water Budget Analyses and Numerical Modeling of Groundwater Flow*. Funding Source: Korea Institute of Geoscience and Mineral Resources ($260,000). Role: Co-PI.

**Submitted but not Funded Research Grant Proposals**

**10/2017:** *Assessing aquifer vulnerability from groundwater renewal rates - Application to nitrate loading in California’s South Coast Range*. Funding Source: Water Environment and Reuse Foundation ($109,051). Role: PI.

**10/2016:** *IUSE GEOPATHS-EXTRA: The Catalina Island Field Semester - Building an effective pathway to geosciences careers through experiential learning in a natural laboratory*. Funding Source: NSF ($427,798). Role: PI.

**02/2016:** *δ13CCO2/CH4 tracing of CO2 reduction-derived methane at the landfill perimeter*. Funding Source: Environmental Research and Education Foundation (EREF) Research in Sustainable Solid Waste Management ($178,397). Role: PI.

**02/2015:** *Sustainable yields in stressed groundwater basins: New constraints from inverse flow modeling.* Funding Source: CSULB Office of Research & Sponsored Programs (3 units of CSULB assigned time). Role: PI.

**10/2014:** *Inverse modeling of recharge in arid groundwater basins: Towards reliable estimates of sustainable yield under a changing climate and increasing water demands.* Funding Source: California State University Water Resources and Policy Initiative 2014-2015 Faculty Research Incentive Award Program ($6,663). Role: PI.

**08/2014:** *REU Site: Science, Sensors, and Drought Hydrology on Catalina Island*. Funding Source: National Science Foundation ($398,619). Role: Senior Personnel. PI: M. Becker.

**04/2014:** *Experimental assessment of leachate scale precipitation mechanisms*. Funding Source: Waste Management Inc. ($46,214). Role: PI.

**12/2013:** *Risk, Resources and Resilience of Prehistoric Rapa Nui Communities*. Funding Source: National Science Foundation ($420,107). Role: Senior Personnel. PI: C. Lipo.

**05/2011:** *Effects of Rainfall Variability and Land Cover Change on Groundwater Recharge in Lanai, Hawaii*. Funding Source: State of Hawaii Commission on Water Resource Management ($238,000). Role: Co-PI.

**Invited Presentations**

**02/2014:** *Groundwater availability in a stressed aquifer system: Jeju Island, Korea*. South Coast Geological Society Monthly Meeting & Dinner Lecture, Long Beach, CA.

**02/2013:** *Water and carbon cycling in complex environments: Quantitative assessments from co-occurring chemical tracers and physical hydrology.* Presentation at Department of Environmental Sciences Seminar Series, William Paterson University, Paterson, NJ.

**07/2011:** *Groundwater recharge on a volcanic island (Jeju, Korea): Constraints from bore hydrographs, Cl, CFC-12 and 3H tracers and water budget modeling*. Brown Bag seminar presentation at Daniel B. Stephens and Associates, Inc., Goleta, CA.

**04/2011:** *Constraining groundwater recharge on a volcanic island (Jeju, Korea) from bore hydrographs and Cl, CFC-12 and 3H chemistry*. Presentation at University of Hawaii, School of Ocean and Earth Science and Technology TGIF weekly seminar series, Honolulu, HI.

**03/2011:** *Refining and validating the water budget: Independent point estimates of recharge*. Presentation at Korea Institute for Geosciences and Mineral Resources Groundwater Symposium, Jeju City, Korea.

**12/2010:** *Controls of runoff and land use on inorganic carbon fluxes in tropical watersheds (Manoa-Palolo, Hawaii)*. Presentation at 2010 State of Hawaii Water Resources Research Center Mini Water Symposium, Honolulu, HI.

**04/2010:** *Climatic and geologic controls on carbon cycling in temperate humid to semiarid watersheds: An example from the Australian Victorian Alps*. Presentation at Department of Geological Sciences Seminar Series, California State Polytechnic University, Pomona, CA.

**04/2010:** *Refining the Water Budget of Jeju Island, Korea*. Presentation at 2010 Korea Institute for Geosciences and Mineral Resources Groundwater Symposium, Daejeon, Korea.

**02/2010:** *New Methods for Refining the Water Budget of Jeju Island, Korea*. Presentation at 2010 U.S. Geological Survey Pacific Islands Water Science Center Mini Symposium, Honolulu, HI.

**09/2009:** *The CO2 system in rivers of the Australian Victorian Alps: CO2 evasion in relation to system metabolism and rock weathering on multi-annual time scales*. Presentation at University of Hawaii, School of Ocean and Earth Science and Technology TGIF weekly seminar series, Honolulu, HI.

**09/2009:** *Groundwater Recharge: Methods of Estimation and Case Study Applications*. Guest lecture for GG 455 Hydrogeology class, University of Hawaii at Manoa, HI.

**Refereed Journal Publications (student authors highlighted)**

**2018: Hagedorn**, **B**., Clarke, N., Ruane, M., Faulkner, K., 2018. Assessing aquifer vulnerability from lumped parameter modeling of modern water proportions in groundwater mixtures: Application to California’s South Coast Range. *Science of the Total Environment*, 624, 1550-1560.

**2016: Hagedorn**, **B**., El-Kadi, A.I., Whittier, R.B., 2016. Controls on δ13CDIC and alkalinity budget of a flashy subtropical stream (Manoa River, Hawaii). *Applied Geochemistry*, 73, 49-58.

 **Hagedorn**, **B**., Kerfoot, H.B., Verwiel, M., Matlock, B., 2016. Geochemical and VOC-constraints on landfill gas age and attenuation characteristics: A case study from a waste disposal facility in Southern California. *Waste Management*, 53, 144-155.

**2015:** **Hagedorn**, **B**., Hydrochemical and 14C constraints on groundwater recharge and interbasin flow in an arid watershed: Tule Desert, Nevada. *Journal of Hydrology*, 523, 297-308.

**Hagedorn**, **B**., Whittier, R.B., Solute sources and water mixing in a flashy mountainous stream (Pahsimeroi River, U.S. Rocky Mountains): Implications on chemical weathering rate and groundwater-surface water interaction. *Chemical Geology*, 391, 123-137.

**2014:** **Hagedorn**, **B**., Mair, A., Tillery, S., El-Kadi, A., Ha, K., Koh, G.-W., Simple equations for temperature simulations on mid-latitude volcanic islands: a case study from Jeju (Republic of Korea). *Geosciences Journal*, 18, 381-396.

El-Kadi, A., Tillery, S., Whittier, R.B., **Hagedorn**, **B**., Mair, A., Ha, K., Koh, G-W., Assessing sustainability of groundwater resources on Jeju Island, South Korea, under climate change, drought, and increased usage. *Hydrogeology Journal*, 22, 625-642.

**2013:** Kerfoot, H., **Hagedorn**, **B**., Verwiel, M., Evaluation of the age of landfill gas methane in landfill gas–natural gas mixtures using co-occurring constituents. *Environmental Science Processes & Impacts*, 15, 1153-1161.

Mair, A., **Hagedorn**, **B**., Tillery, S., El-Kadi, A.I., Westenbroek, S., Ha, K., Koh, G.-W. Temporal and spatial variability of groundwater recharge on Jeju Island, Korea. *Journal of Hydrology*, 501, 213-226.

**2011:** **Hagedorn**, **B**., El-Kadi, A.-I., Mair, A., Whittier, R.B., Ha, K., Estimating recharge in fractured aquifers of a temperate humid to semiarid volcanic island (Jeju, Korea) from water table fluctuations, and Cl, CFC-12 and 3H chemistry. *Journal of Hydrology*, 409, 650-662.

Moosdorf, N., Hartman, J., Lauerwald, R., **Hagedorn**, **B**., Kempe, S., Atmospheric CO2 consumption by chemical weathering in North America. *Geochimica Cosmochimica Acta*, 75, 7829-7854.

**Hagedorn**, **B**., Cartwright, I., Raveggi, M., Maas, R., Rare earth element and strontium geochemistry of the Australian Victorian Alps drainage system: Evaluating the dominance of carbonate vs. aluminosilicate weathering under varying runoff. *Chemical Geology*, 284, 105-126.

**2010:** **Hagedorn**, **B**., Cartwright, I., The CO2 system in rivers of the Australian Victorian Alps: CO2 evasion in relation to system metabolism and rock weathering on multi-annual time scales. *Applied Geochemistry*, 25, 881-899.

**2009:** **Hagedorn**, **B**., Cartwright, I. CO2 evasion in relation to system metabolism and rock weathering on multi-annual time scales. A mass balance approach in rivers of the Australian Victorian Alps. *Geochimica Cosmochimica Acta*, 73 suppl. 1, A485.

**Hagedorn**, **B**., Cartwright, I., Climatic and lithologic controls on the temporal and spatial variability of CO2 consumption via chemical weathering: An example from the Australian Victorian Alps. *Chemical Geology*, 260, 234-253.

**Technical Reports (Non-Refereed)**

**2015 - 2016: Hagedorn**, **B**., Evaluation of solute chemistry of Port of LA, Playa del Rey/LAX, Marina Del Rey, Playa Vista and Venice groundwater. Technical Report series (5x) prepared for Edison Water Resources.

**2013 - 2016:** **Hagedorn**, **B**., Jesionek, K., Evaluation Monitoring Program (EMP) report of Underdrain 4 (UN-4) Groundwater Quality – Vasco Road Landfill. Technical Report series (9x) prepared for Geosyntec Consultants.

**2015: Hagedorn**, **B**., Methane source and attenuation assessment at Simi Valley Landfill and Recycling Center, California. Technical Report prepared for Waste Management, Inc., 17 pp.

**2013: Hagedorn**, **B**., Review of research studies on scale precipitation mechanisms at landfill leachate collection systems. Technical Report, prepared for Waste Management Inc., 12 pp.

**2012:** **Hagedorn**, **B**., Desai, M., Kosiarek, K., Kraft, R., Groundwater Modeling Report: An Evaluation of Groundwater Flow and Solute Transport from the Site Shallow Zone to the Regional Groundwater Aquifer – Burbank/Glendale California. Technical Report, prepared for Home Depot USA, 35 pp.

**2011:** Mair, A., **Hagedorn**, **B**., Tillery, S., Whittier, R. B., El-Kadi, A.I., 2011. Water Budget Analyses and Sustainable Yield Estimation on Jeju Island - Alternative Groundwater Recharge Estimation, Climate Data Analysis, Water Balance Modeling, and Sustainable Yield Assessment. Phase II Report, prepared for Korea Institute for Geosciences and Mineral Resources (KIGAM), Daejong, Korea. Water Resources Research Center, University of Hawaii at Manoa, Honolulu HI, 166 pp.

**2010:** **Hagedorn**, **B**., Mair, A., Whittier, R.B., El-Kadi, A.I., 2010. Water Budget Analyses and Sustainable Yield Estimation on Jeju Island, Data Collection, Literature Review, and Method Evaluation. Phase I Report, prepared for Korea Institute for Geosciences and Mineral Resources (KIGAM), Daejong, Korea. Water Resources Research Center, University of Hawaii at Manoa, Honolulu HI, 81 pp.

**Presentation and Participation at Scholarly Conferences (student authors highlighted)**

**2017: Hagedorn**, **B**., Clarke, N., Ruane, M., Faulkner, K., Assessing aquifer vulnerability from lumped parameter modeling of modern water proportions in groundwater mixtures: Application to California’s South Coast Range. 2017 American Geophysical Union Fall Meeting, New Orleans, LA.

Faulkner, K., **Hagedorn**, **B**., Groundwater recharge estimates of the Indian Wells Basin (California) using geochemical analysis of radiocarbon and tritium. 2017 American Geophysical Union Fall Meeting, New Orleans, LA.

 Harlow, J., **Hagedorn**, **B**., Assessing spatial and temporal patterns of groundwater recharge on Catalina Island, California. 2017 American Geophysical Union Fall Meeting, New Orleans, LA.

 Donelan, J., **Hagedorn**, **B**., Tracing groundwater: A geochemical approach to constraining baseflow to the Kern River, Ca using radon-222 and major ion analysis. 2017 American Geophysical Union Fall Meeting, New Orleans, LA.

 Faulkner, K., **Hagedorn**, **B**., Groundwater recharge estimates of the Indian Wells Basin (California) using geochemical analysis of tritium. 2017 Geological Society of America Meeting, Seattle, WA.

**2016: Hagedorn**, **B**., Hydrochemical and 14C constraints on groundwater recharge and interbasin flow in a desert watershed - A case study from southeastern Nevada. 2016 GSA Cordilleran Section Meeting, Ontario, CA.

Hillman, C., **Hagedorn**, **B**., Exploring heterogeneities in a stressed alluvial aquifer using 222Rn concentrations in groundwater. 2016 American Geophysical Union Fall Meeting, San Francisco, CA.

 **Hagedorn**, **B**., Kerfoot, H.B., Verwiel, M., Matlock, B., Assessing landfill gas age and attenuation characteristics: Geochemical constraints from a municipal solid waste landfill in Southern California. 2016 Global Waste Management Symposium, Indian Wells, CA.

**2015:** Neel, B., **Hagedorn**, **B**., Sovich, T. Characterization of the shallow and deep aquifers in the Easy Newport Mesa area, Orange County. 2015 Geological Society of America Meeting, Baltimore, MD.

**2014:** **Hagedorn**, **B**., Bushner, G.L., Groundwater Sources in a Desert Watershed (Tule Basin, Nevada) - Estimates of Recharge and Interbasin Flow from Groundwater 14C Patterns and Deviations from a Local Paleoclimate Archive. 2014 American Geophysical Union Fall Meeting, San Francisco, CA.

**Hagedorn**, **B**.,Whittier, R.B.,Source Water Tracing in a Flashy Mountainous Stream - Pahsimeroi River, US Rocky Mountains. 2014 Goldschmidt Conference, Sacramento, CA.

**Hagedorn**, **B**.,Whittier, R.B.,Strontium tracing of water sources in a flashy mountainous stream - Pahsimeroi River, US Rocky Mountains. 6th Annual CNSM Faculty Research Symposium, Long Beach, CA.

**2011:** **Hagedorn**, **B**., Mair, A., Tillery, S., El-Kadi, A.I., Effects of rainfall variability and land cover change on groundwater recharge on a volcanic island (Jeju, Korea). 2011 American Geophysical Union Fall Meeting, San Francisco, CA.

Mair, A., **Hagedorn**, **B**., Tillery, S., El-Kadi, A.I., Ha, K., Koh, G.W., Estimating groundwater recharge using a water balance approach for Jeju Island. 2011 Water Resource Sustainability Issues on Tropical Islands Conference, Honolulu, HI.

**2010:** **Hagedorn**, **B**., Mair, A., El-Kadi, A.I., Whittier, R.B., Estimating recharge in fractured aquifers of a temperate humid to semi-arid volcanic island (Jeju, Korea) using water table fluctuations, Cl mass balance, apparent CFC-12 ages and 3H renewal. American Geophysical Union Fall Meeting, San Francisco, CA.

**2009:** **Hagedorn**, **B**., El-Kadi, A.I., Evaluation of FLO-2D runoff and sediment loading models in tropical humid to semi-arid catchments of Hawaii. 2009 American Geophysical Union Fall Meeting, San Francisco, CA.

**2008:** **Hagedorn**, **B**., Cartwright, I., Rare earth element behavior during incongruent weathering and varying discharge conditions in silicate dominated river systems: The Australian Victorian Alps. 2008 American Geophysical Union Fall Meeting, San Francisco, CA.

**2007:** **Hagedorn**, **B**., Cartwright, I., Hydrochemical and isotopic constraints on the temporal and spatial variability of chemical weathering and CO2 fluxes: An example from the Australian Victorian Alps. 2007 American Geophysical Union Fall Meeting, San Francisco, CA.

**2006:** **Hagedorn**, **B**., Cartwright, I., Hydrochemical and isotopic constraints on the origins of major ions and DIC; Gippsland Basin, Victoria, Australia. 2006 2nd Hydrogeology Research / 9th Environmental Isotope Joint Congress, Adelaide, Australia.

**2005:** **Hagedorn**, **B**., Stollhofen, H., Stanistreet, I. Kukla, P., Cenozoic raised beach deposits of the Skeleton Coast in NW-Namibia - Characterization, distribution and reference to sea level changes and tectonics. 2005 German Geologic Society Annual Meeting, Erlangen, Germany. Reappointment

**SERVICE**

**Service at Department Level**

**Fall 2015:** New Tenure Track Hiring Search Committee

**Spring 2015:**  Department Chair Election Committee

**Spring - Fall 2014:** Curriculum Revision for Earth Science Degree Committee

**Fall 2013 - Fall 2016:** Secretary at department meetings

**Service at College Level**

**Fall 2016 - present:** College Council

**Fall 2017 - Spring 2018:** Research & Scholarly Activity (RSCA) Proposal Review Committee

**Fall 2015 - Spring 2016:** Mini-Grant & Summer Stipend (MGSS) Proposal Review Committee

 CNSM Research Symposium Organizing Committee

**Fall 2014 - Spring 2015:** Grade Appeals Committee

**Fall 2014 - Spring 2015:** Elections Committee

**Professional Service**

**10/2016 - 03/2017:** Organizer and host (interim for Dr. T. Kelty) of*National Association of State Boards of Geology* spring 2017 FG and PG examinations at CSULB

**04/2014:** Host of *Groundwater Resources Association David Keith Todd 2014 Lecture*

**06/2009 - present**: Ad hoc manuscript and proposal reviewer for *National Science Foundation* and journalsincluding: *Geochimica Cosmochimica Acta*, *Chemical Geology*, *Journal of Hydrology*, *Geochemical Transactions*, *Hydrogeology Journal*, *Environmental Forensics*, *Environmental Earth Sciences*, *Environment, Development and Sustainability*, *Journal of Contemporary Water Research & Education*, *geosciences* and *Water*