

**CITY OF SAN ANTONIO
OFFICE OF THE CITY CLERK
GOVERNANCE CITY COUNCIL COMMITTEE**

TO: Mayor Ron Nirenberg, Chair
Councilmember Roberto C. Treviño
Councilmember Rebecca J. Viagran
Councilmember Rey Saldaña
Councilmember Ana E. Sandoval

FROM: Leticia M. Vacek, City Clerk, TRMC/CMC/MMC

SUBJECT: Consideration of Applicants to San Antonio Water System Board of Trustees (3 slots)

DATE: February 28, 2018

SUMMARY:

The Governance City Council Committee will review the following three candidates for appointment to the San Antonio Water System Board of Trustees for the remainder of unexpired terms of office to expire May 31, 2021:

<i>First</i>	<i>MI</i>	<i>Last</i>	<i>Quadrant</i>	<i>CD</i>	<i>Appt/Reappt</i>
Amy		Hardberger	SW	7	Appointment
Eduardo	J.	Parra Pirela	NW	8	Appointment
David	P.	McGee	NE	8	Reappointment

BACKGROUND INFORMATION:

On April 30, 1992, the City Council created the San Antonio Water System by Ordinance 75686. Section 32 prescribes management of the System by a board of trustees, which includes the Mayor as an ex-officio member. Paragraph D provides that all vacancies on the board shall be filled by majority vote of all members of the City Council then holding office.

The San Antonio Water System Board of Trustees is vested with the complete management, control and operation of the Water System. The Board controls the expenditure and application of the revenues of the System, and makes recommendations to the City Council concerning rates, fees, and changes for services rendered by the System. Members serve a 4-year term of office, and are limited to serving 2 terms.

Per Ordinance 87010 paragraph 4 denotes Trustees are required to be U.S. citizens and reside inside the corporate limits of the City or inside the area served by the system.

ISSUE:

Consideration of appointments to the Southwest, Northwest, and Northeast Quadrants of the city.

FISCAL IMPACT:

There is no fiscal impact.

RECOMMENDATION:

The recommendation of the Governance City Council Committee will be presented to the full City Council on March 8, 2018.

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City of San Antonio Boards and Commissions

2/22/2018 1:48:41PM

San Antonio Water System Board of Trustees (SAWS)

The San Antonio Water System (SAWS) Board of Trustees is comprised of six (6) members appointed by the City Council for staggered terms of four (4) years, and one (1) ex-officio member filled by the Mayor of the City of San Antonio. Each of the six (6) members represents a certain sector of the City. Members of the Board must be citizens of the United States and must either reside inside the corporate limits of the City or inside the area served by the System. Members of the Board shall receive annual compensation in the amount of \$2,500 (except the Mayor).

The Board is vested with the complete management, control, and operation of the Water System and controls the expenditure and application of the revenues of the System. The Board determines the rates, fees, and charges for services to be rendered by SAWS.

Regular Board Meetings are held once a month, usually on the first Tuesday at 9:00 AM at the San Antonio Water System Offices, 2800 US Highway 281 North. The Board's Policy and Planning Meeting is also held once a month, usually two weeks prior to a Regular Board Meeting, at 12:30 PM. For more information, please go to http://saws.org/who_we_are/board/.

Term: Four Years Staggered

Term Limit:

Liaison: Lisa Mireles (210) 233-3690

Name	Representing	Date Appointed	Date Reappointed	Date 2nd Reappointed	Date Expires
Ernesto Arrellano (Sw Quad) Jr. Southwest Quadrant	Other	Oct 10, 2013			May 31, 2017
Berto Guerra (N Sec) Jr. North Sector, Chair	Other	Sep 01, 2011	Jun 12, 2014		May 31, 2018
Patricia Jasso (S Sec) South Sector	Other	Oct 10, 2013	Jun 30, 2016		May 31, 2020
David McGee (Ne Quad) Northeast Quadrant	Other	Sep 03, 2015			May 31, 2017
Patricia E. Merritt (Se Quad) Southeast Quadrant	Other	Oct 10, 2013	Jun 12, 2014		May 31, 2018
Ron Nirenberg Mayor	Other	Jun 01, 2017			May 31, 2019
Louis E. Rowe (Nw Quad) Northwest Quadrant	Other	Jun 01, 2009	Oct 10, 2013		May 31, 2017

NAME OF BOARD/COMMISSION:

REPORTING PERIOD: July 1, 2017 - December 31, 2017

MEMBER'S NAME	Representing District or At-Large	Total # of Meetings	# of Meetings Attended	% of Meetings Attended	Attendance Issues?	Meeting Dates
Berto Guerra, Jr.	North	5	5	100.0%	No	
Pat Jasso	South	5	4	80.0%	No	10-Oct
Ernesto Arrellano, Jr.	SW	5	4	80.0%	No	10-Oct
Louis Rowe	NW	5	5	100.0%	No	
Pat Merritt	SE	5	5	100.0%	No	
David McGee	NE	5	5	100.0%	No	
Mayor Ron Nirenberg	ex officio	5	5	100.0%	No	
				#DIV/0!		
				#DIV/0!		
				#DIV/0!		
				#DIV/0!		

Submitted by: Lisa Mireles
Department: SAWS Board Support
Telephone: 210-233-3690

San Antonio Water System Board of Trustees (SAWS) Other Southwest Quadrant	Application No: No: 20180208221011_6521
ELIGIBILITY	
Are you a qualified voter in the City of San Antonio?	Yes
PROFILE	
Prefix	Ms
Last Name	Hardberger
First Name	Amy
Middle Name	
Suffix	
Preferred Name	Amy Hardberger
Gender:	Female
Ethnicity:	Non-Minority
Title	
Address Type?	Residence
Address	
City	San Antonio
State	TX
Zip	
Phone Type?	Business
Phone number	
Phone 2 Type?	
Phone 2 number	
eMail	
Employer	

	St. Mary's University School of Law
Job Title	Associate Dean
Occupation	Law Professor
Date of Birth	
Board/Commission/Committee Name	San Antonio Water System Board of Trustees (SAWS) ~Other~Southwest Quadrant~06
QUESTIONS	
If this board position requires residency within Bexar County, the City of San Antonio city limits or within a particular council district, do you meet those residency requirements?	Yes
Are you a City of San Antonio resident?	Yes
San Antonio Resident Length - Years	05
In which City Council District do you reside?	07
How many years have you lived in the City Council District where you reside?	05
Do you or any of your immediate family members or any businesses that you or they own currently have any direct or indirect financial interest in any contract(s) with the City, including subcontracts?	No
Will you or any of your immediate family members or any businesses that you or they own seek a contract	No

(s) with the City in the foreseeable future?	
Do you or any of your immediate family members or any businesses that you or they own have any financial interest, direct or indirect, in any sale to the City of any land, materials, supplies, or service?	No
Will you or any of your immediate family members of any businesses that you or they own seek or take part, either directly or indirectly, in any sale of land, materials, supplies, or service to the City in the foreseeable future?	No
Does your employer or an employer of your immediate family members have a contract with the City?	No
Do you or any of your family members currently serve or in the past year served as an administrative aide to a Councilmember?	No
Do you currently serve in any elected or appointed public government office?	Yes
Please list office, board or commission, your position in that entity and term of service.	Capital Improvements Advisory Committee - D8 representative
Are you a member and/or officer and/or employee of any boards, commissions, corporations, non-profit entities, agencies, or other entities?	Yes

Give the title and dates of any position which you have held in such organization:	Board Member - Hardberger Park Conservancy 2015-present Board Member - Big Bend Conservation Alliance 2017-present
Do you receive any compensation for service on this entity(ies)?	No
Do you intend to seek election or appointment to any public office or board or commission in the foreseeable future?	No
Have you ever been hired for a position with the City of San Antonio?	No
Have you had any convictions of criminal offenses other than parking or traffic tickets?	No
Describe your Educational history.	BA - Earlham College 1994 MS - UTSA 2001 JD - Texas Tech School of Law 2005
Describe your Professional History & Certification designations (Current and historical).	I am currently the Associate Dean for the School of Law and a Professor at St. Marys School of Law. My classes include Property, Land Use Planning and Water Law. My areas of research are Groundwater Law, Municipal Water Conservation, Energy/Water Nexus, Water Valuation and the Human Right to Water. Before joining St. Marys, I worked with the Texas Office of Environmental Defense Fund where I worked with both the Energy and Water

	Programs on state and national policy initiatives regarding water conservation, energy/water nexus, and regional water planning. Prior to joining EDF, I completed a judicial clerkship with the Honorable William Wayne Justice of the Western District of Texas. Before law school, I completed my Masters in Geology and worked as an environmental consultant involved in the remediation of closed Air Force bases around the United States. I am a member of the State Bar of Texas and the Western District of Texas, and a professional registered geologist in the state of Texas.
Describe your Volunteer Experience & Community Service	In addition to my current board and commission work listed above I have volunteered extensively with sexual assault survivors as a hospital advocate. In that role, I accompanied a survivor through the sexual assault examination. I am also a former board member of the Greater Edwards Aquifer Alliance and the Rape Crisis Center and a member of the SAWS CCC.
Please provide a brief narrative outlining your reasons for seeking	As a water attorney and a San Antonio native, I spend a lot of time thinking about our local

appointment to this board or commission:	water issues. I am very passionate about the ability of San Antonio to have a sustainable water supply that balances our city's needs while still considering the needs of surrounding communities and the natural environment. My most recent academic writings focused on municipal water pricing and cost-stable water utility models. I have worked with and around SAWS for many years and realize the challenges they face every day. I would love the opportunity to be of service to my community in a way that also relates to my field of study.
APPLICATION SIGN-OFF	
As a board, commission, or committee member, you will be asked to adhere to: Code of Ordinances, City of San Antonio, Part II, Chapter 2, Article IX, Sec.2-534. All board and commission members must file a Financial Disclosure Report with the Office of the City Clerk upon appointment, and annually thereafter, throughout the member's term. Failure to file a Financial Disclosure Report within the time required by the City's Ethics Code will be considered an automatic removal.	

I understand that if any member of the public makes a request for information included in this Application for Appointment, most of the information must be disclosed under the Public Information Act. I understand that the City of San Antonio will attempt to maintain the confidentiality of highly private matters by seeking an Attorney General's opinion in accordance with the Public Information Act. I understand that it may not be legally possible to maintain the confidentiality of such information, and I hereby release the City of San Antonio, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Public Information Act or any other law requiring its release.

Acknowledged

I recognize that I am an applicant for San Antonio Water System Board of Trustees (SAWS)~Other~Southwest Quadrant~06, as a City of San Antonio board or commission that is more than advisory in nature. As a city officer, I understand that I, my immediate family members, and any business in which I and/or they hold a 10% or greater ownership interest will be prohibited from seeking or accepting contracts with the city for the duration of my service on this

Acknowledged

board. I further understand that this restriction will extend with regard to many types of discretionary contracts for a period of one year after leaving city service.	
OATH: I have read and understand the guidelines set out in this application. The foregoing statements are true, accurate, and complete. I agree that any misrepresentation or omission of facts may result in my disqualification for appointment.	Acknowledged
I further request, as a part of my application, that all law enforcement officials and criminal justice agencies release any criminal history records concerning me to the Office of the City Clerk of the City of San Antonio in order that qualifications may be checked.	Acknowledged
Enter Your Name	Amy Hardberger
Date of submission.	2/8/2018
The Texas Public Information Act provides that each government official may choose whether to allow the public access to the information in the custody of the City that contains your home address, home telephone number, or reveals whether you have family members. Please note that this does not apply to business addresses, which are subject to public disclosure. If an open records request is filed	

requesting to view or obtain records that contain your personal information, the City will take steps to protect your personal information as authorized by the Texas Public Information Act, but only if you have elected to protect personal information.	
I want the public to have access to my Home Address.	No
I want the public to have access to my Home Telephone Number.	No
I want the public to have access to my Social Security Number.	No
I want the public to have access to my Emergency Contact Information.	No
I want the public to have access to my Family Information.	No
Please attach any additional information, such as a current resume, using the Attachments panel at the bottom of this page.	

Amy Hardberger, J.D., P.G.

Education

Juris Doctor, *cum laude* 2005

Texas Tech University School of Law, Lubbock, TX

- Law and Science Certification – Environmental Law
- Texas Tech Law Review, Comment Editor - 2003-2005
- Texas Tech Board of Barristers 2003-2004

M.S. in Geology, 2001

University of Texas at San Antonio, San Antonio, TX

B.A. in Geology, 1994

Earlham College, Richmond, IN

Professional Experience

Associate Dean

June 2016-Present

St. Mary's University School of Law

- Managed day-to-day operations of school with 1,000 faculty, staff & students
- Drafted new policies and procedures to increase efficiency across school
- Created class schedule for academic year
- Supervised 7 staff and 50 adjunct professors

Professor

Aug. 2012-May 2016

St. Mary's University School of Law

- Prepared and taught Property Law (5 hours)
- Prepared and taught Environmental Law (3 hours)
- Prepared and taught Land Use Planning (3 hours)
- Prepared and taught Texas Environmental Law (2 hours)
- Prepared and taught Water Law (3 hours)

Visiting Professor

Jan. 2011-May 2012

Texas Tech School of Law

- Prepared and taught Land Use Planning course (3 hours)
- Prepared and taught International Water Law seminar (2 hours)
- Prepared and taught Water Law course (3 hours)
- Created, prepared and taught Texas Environmental Law course (3 hours)
- Supervised student independent study (2 hours)

Attorney

Oct. 2006-Oct. 2012

Environmental Defense Fund

- National co-leader for the National Petroleum Council Environmental and Regulatory Section Study
- Created and authored blog on Texas water policy www.edf.org/texaswatersolutions
- Team leader for EDF Energy Program, Energy-Water Nexus
- Managed Texas Ogallala terrestrial sequestration project

- Led EDF partnership with cities and interfaced with Texas state agencies on municipal water conservation policies
- Authored policy reports on water conservation and energy/water nexus
- Lead organization's efforts to stop authorization of TXU Energy's proposed coal plants

Federal Judicial Clerk

Aug. 2005-Aug. 2006

Honorable William Wayne Justice, Eastern District, Austin, TX

- Managed half of docket with approximately 250 criminal and sixty civil actions
- Researched legal issues and drafted orders for federal actions including Title VII, 42 U.S.C. § 1983 and Bankruptcy
- Prepared briefings for criminal sentencing objections using case law and the United States Sentencing Guidelines

Legal Intern

July 2004-Aug. 2004

International Boundary and Water Commission, United States Section

Department of State, El Paso, TX

- Prepared agency record of decision response letters to U.S. Congressmen and agencies
- Examined water appropriation alternatives for the federal Rio Grande Canalization Project
- Represented the legal department in community stakeholder meetings

Environmental Consultant

Nov. 2000-May 2002

Universe Technologies, Inc., Kelly AFB, TX

- Provided technical and management support to the Air Force Base Conversion Agency ("AFBCA") and the Air Force Center for Environmental Excellence ("AFCEE") at Kelly AFB
- Conducted document reviews, cost estimates, and project management including compliance review of all environmental guidelines related to base closure

Project Manager, Western United States

Oct. 1998-Nov. 2000

Universe Technologies, Inc. San Antonio, TX

- Provided project management and technical oversight of Remedial Investigations, Feasibility Studies, Remedial Action, and Environmental Baseline Studies.
- Managed six AFCEE remediation programs totaling over one million dollars in funding.
- Supervised six technical staff members that provided multi-year support in the development of environmental projects in support of Air Force and regulatory objectives
- Served as central point of contact for AFCEE, AFBCA, regulatory agencies, and contractors at Carswell AFB, Naval Air Station Fort Worth, and Air Force Plant 4

Publications

- *Forgetting Nature: Including Environmental Flows in International Water Negotiations*, OREGON REVIEW OF INTERNATIONAL LAW (Forthcoming Summer 2016)
- *Water Demands & Utility Pricing: Using Economics to Promote Utility Resilience*, THE WATER REPORT (APRIL 15, 2016).
- *Hardberger: Big Bend Landowners are Under Siege*, HOUSTON CHRONICLE (Jan. 27, 2016).
- *Landowners Under Siege in The Big Bend*, SAN ANTONIO EXPRESS-NEWS (Jan. 24, 2016).
- *Put Your Money Where Your Water Is: Building Resilience Through Rates*, 15 CONN. PUBLIC INTEREST JOURNAL 39 (Jan. 2016).

- *The Facts about Texas Water*, in TEXAS LAW OF WATER RESOURCES 4th ed. (State Bar Books) (expected 2016) (coauthored with Gabriel Eckstein)
- *Transboundary Water Issues: Water Wars*, 23 THE PUBLIC LAWYER 10-13 (Winter 2014).
- *Why Government Must Acknowledge the Interdependence of Energy and Water*, BLOOMBERG BNA'S WATER LAW AND POLICY MONITOR & BLOOMBERG BNA'S DAILY ENVIRONMENTAL REPORT, Nov. 2014
- *Water Pipeline Project is Wrong for San Antonio*, TEX. TRIBUNE, Oct. 28, 2014, <http://www.tribtalk.org/2014/10/28/water-pipeline-project-is-wrong-for-san-antonio/>
- *Fear Should Not Dictate Vista Ridge Decision*, SAN ANTONIO EXPRESS-NEWS (Oct. 17, 2014) <http://www.mysanantonio.com/default/article/Fear-should-not-dictate-Vista-Ridge-decision-5830548.php>
- *Remembering Water in The Climate Change Regulatory Equation*, ABA 32nd Annual Water Law Conference (June 4-6, 2014)
- *SAWS Impact Fees Represent more than Meets the Eye*, RIVARD REPORT (May 22, 2014, 12:11 AM), <http://www.therivardreport.com/impact-fees-represent-meets-eye/>
- *Water Is A Girl's Best Friend: Examining The Water Valuation Dilemma*, 62 Kansas Law Review 101 (2014)
- *Understanding the Municipal Water Valuation Dilemma*, Texas Water Law CLE (March 27 - 28, 2014)
- *World's Worst Game of Telephone: Attempting to Understand the Conversation Between Texas' Legislature and Courts On Groundwater*, 43 Texas Environmental Law Journal 257 (2013)
- *The Future of San Antonio: Water and Energy Needs Meet Land Use Planning*, The RIVARD REPORT (Oct. 4, 2013)
- *Powering The Tap Dry: Regulatory Alternatives for The Energy Water Nexus*, 84 COLORADO LAW REVIEW 101 (2013)
- *Ripples in a Lake*, THIS LAND PRESS (Nov. 4, 2012)
- *Powering The Tap Dry: Regulatory Alternatives for The Energy Water Nexus*, Proceedings of the ABA Environmental Section Meeting, (Oct 11-12, 2012) (Best Paper Award Winner)
- *Managing the Risks of CO2 Sequestration*, SOUTHWEST HYDROLOGY September/October (2009) (coauthored with Scott Anderson)
- *Energy-Water Nexus in Texas*, Environmental Defense Fund Publication (2009) (coauthored with University of Texas)
- *State Practice in the Management and Allocation of Transboundary Ground Water Resources in North America*, 18 YEARBOOK OF INTERNATIONAL ENVIRONMENTAL LAW 96 (2008)(coauthored with Gabriel Eckstein)
- *Why We Do the Things We Do?: The Role of Ethics in Water Resource Planning*, 6 SANTA CLARA JOURNAL OF INTERNATIONAL LAW 129 (2008)
- *From Policy to Reality: Maximizing Urban Water Conservation in Texas*, Environmental Defense Fund Publication (2008)
- *State Practice in the Management and Allocation of Transboundary Ground Water Resources in North America*, Proceedings of the 2006 NGWA Ground Water and Environmental Law Conference, July 6-7, 2006, Chicago, IL (2006) (co-authored with Gabriel Eckstein)
- *Summaries from the Symposium: Precious, Worthless, or Immeasurable: The Value and Ethic of Water*, Proceedings of the Symposium–Precious, Worthless, or Incalculable: The Value and Ethic of Water, Vol. 2, Center for Water Law & Policy and International Center

for Arid and Semi-Arid Land Studies, Texas Tech University (A.C. Corrêa & Gabriel Eckstein, eds. 2006) (co-authored with Gabriel Eckstein)

- *Whose Job it is Anyway?: Governmental Obligations Created by the Human Right to Water*, 41 TEXAS INTERNATIONAL LAW JOURNAL 533 (2006)
- *Life, Liberty, and the Pursuit of Water: Evaluating Water as a Human Right and the Duties and Obligations it Creates*, 4 NORTHWESTERN UNIVERSITY JOURNAL OF INTERNATIONAL HUMAN RIGHTS 331, at <http://www.law.northwestern.edu/journals/JIHR/v4/n2/3> (2005)
- *What Lies Beneath: Determining the Necessity of International Groundwater Policy Along the United States–Mexico Border and a Roadmap to an Agreement*, 35 TEXAS TECH LAW REVIEW 1212 (2004)

Conference, Lecture and Workshop Presentations

- “Pricing Municipal Water for Resiliency,” Journal of Property Law Symposium, Texas A&M School of Law, April 22, 2016, Ft. Worth, TX.
- Keynote Address, 2016 Water Law Symposium, Texas Tech School of Law, Feb. 26, 2016, Lubbock, TX.
- “Put Your Money Where Your Water Is: Building Resilience Through Rates,” 6th Annual Colloquium on Environmental Scholarship, Vermont Law School, Oct 2-3, 2015, South Royalton, VT.
- “Forgetting Nature: Including Environmental Flows in International Water Negotiations,” Drought in the American Drought, A Symposium on Law, Policy and Science, Oregon School of Law, Sept. 25, 2015, Eugene, OR.
- “Water Valuation and its Impact on Decision-making,” Sustainable Conference of American Legal Educators, Sandra Day O’Connor College of Law, May 8, 2015, Tempe, AZ.
- “The Link Between Water Pricing & Supply,” Texas Water Law CLE International, April 9-10, 2015, San Antonio, TX.
- “The Effects of Drought and Population Growth on Land Use,” University of Texas Land Use CLE, March 26-27, 2015, Round Rock, TX.
- Invited Participants, Aspen Institute & Mitchell Foundation’s Forum on Shale Development and Water Resources in Texas, Feb. 5, 2015, Austin, TX.
- “Water Sustainability: Current Policies and Lessons Learned,” SXSW Eco Conference, Oct. 7, 2014, Austin, TX.
- “Conversations on Water,” UTSA Town Hall Meeting, September 29, 2014, San Antonio, TX.
- “Water, Energy, Climate Change, and New Regulation,” ABA 32nd Annual Water Law Conference June 4-6, 2014, Las Vegas, NV.
- “Water Pricing and Behavior,” Texas Water Law CLE International, March 27-28, 2014, San Antonio, TX
- “Texas Groundwater 101,” St. Mary’s University Law School Homecoming CLE, March 21, 2014, San Antonio, TX
- “The Increasing Challenge of Water Valuation and How It Guides Behavior,” 2013 Kansas Law Review Symposium, Waters of the United States, Nov. 1, 2013, Lawrence, KS
- “Water is for Fighting: Land Use and Water in the Time of the Drought of the Century,” ABA State and Local Government Law 2013 Fall Council Meeting, Oct. 24 - 27, 2013, Santa Fe, NM
- “The Basics of Texas Water Law and the Role of Conservation,” University of TX Water, Technology, and Policy Short Course, Oct. 22-23, 2013, Austin, TX

- Expert Panel Member, San Antonio Clean Technology Forum, Oct. 15, 2013, San Antonio, TX
- “Ethical Foundations for Water Law,” Texas Water Law CLE International, Oct. 7-8, 2013, Austin, TX
- “Ethics & Ethical Foundations for Water Law,” Texas Water Law CLE International, April 11-12, 2013, San Antonio, TX
- “Energy Water Nexus,” St. Mary’s University Law School Homecoming CLE, March 27, 2013, San Antonio, TX
- “Energy and Hydraulic Fracking,” Changing Face of Water Rights CLE, Feb. 21-22, 2013, San Antonio, TX
- “Working Together: A Panel Discussion with Stephanie Bergeron Perdue, Pam Giblin, and Amy Hardberger,” Austin Environmental Bar Section Meeting, Feb. 8, 2013, Austin, TX
- “Endangered Species Act Focusing on West Texas,” Environmental Impacts of Oil and Gas Production CLE, Jan. 25, 2013, San Antonio, TX
- “Texas Groundwater Law,” Regional Clean Air & Water Association, Nov. 28, 2012, San Antonio, TX
- “Policy Alternatives to the Energy-Water Nexus,” San Antonio Environmental Bar Section, Nov. 16, 2012, San Antonio, TX
- “Powering the Tap Dry: Regulatory Alternatives for the Energy Water Nexus,” Faculty Exchange Program, University of Phoenix School of Law, Nov. 7, 2012, Phoenix, AR
- “The ‘Fabric of Our Lives’ and the Life of the Land,” Society of Environmental Journalists Conference, Oct. 17-21, 2012, Lubbock, TX
- “The Critical Role of Water in Energy Facility Siting, Development and Operation,” ABA Environmental Section Meeting, Austin TX, Oct. 10-13, 2012
- “The Future of Water,” The Texas Tribune Festival, Sept. 21-23, 2012, Austin, TX
- “Hydraulic Fracturing and Water Resources,” Air and Waste Management Association Conference, June 19-22, 2012, San Antonio, TX
- “Powering the Tap Dry: Regulatory Alternatives for the Energy Water Nexus,” Faculty Exchange Program, Texas Wesleyan School of Law, March 1, 2012, Fort Worth, TX
- “Drought, Development and Ethics,” Texas Water Law CLE International, March 22-23, 2012, San Antonio, TX
- “Water Quality Concerns and Regulatory Alternatives for Shale Gas Development,” Environmental Impacts of Oil and Gas Production CLE, January 12, 2012, Houston, TX
- “From Top to Bottom: Potential Environmental Impacts of Hydraulic Fracturing and Policy Solutions,” Texas Wesleyan School of Law, November 8, 2011, Fort Worth, TX
- “Ethics and the Human Right to Water,” St. Edwards University Speaker, November 17, 2011, Austin, TX
- “Water Wars: Can CHP Provide a Solution?,” Combined Heat and Power Tradeshow and Conference, October 18, 2011, Houston, TX
- “The Ethical Foundation of Texas Water Law,” Texas Water Law CLE International, March 4-5, 2011, San Antonio, TX
- “Regulating the Energy/Water Nexus,” Groundwater Protection Council Water Energy Sustainability Symposium, September 24-29, 2010, Pittsburgh, PA
- “International River Boundaries: U.S./Mexico, a Case Study,” River Boundaries: Practicalities and Solutions, International Boundary Research Unit, July 12-14, 2010, Durham, England
- “Water: The Rush for Blue Gold,” Clean Texas Forum, June 1, 2010, Austin, TX

- “Water, Energy and Climate Change,” Carpe Diem Leadership Convening, March 4-5, 2010 San Francisco, CA
- “Texas Energy/Water Nexus,” Climate Change, Water and Adaptive Law, February 26, 2010 Houston, TX
- “Texas CCS Policy and the Role of NGOs,” 7th Annual EOR Carbon Management Workshop, December 7, 2009, Houston, Texas
- “Challenges to Interface Ecosystems Management: The International Component,” Land, Water, People, November 16, 2009, San Marcos, Texas
- “The Impact of Water Requirements for Renewable Power Sources in Texas,” Texas Renewables 2009 Conference, November 9, 2009, Austin, Texas
- “NGO’s Perspective on Energy Water Policy,” (Panel Member) Energy and Water in the Southwestern US: Opportunities and Challenges, August 7, 2009, Austin, Texas
- “Water Supply and Energy,” Texas Environmental Super Conference, August 6-7, 2009, Austin, Texas
- “Preparing for the Unknown: International Water Agreements and Climate Change,” Transboundary River Governance in the Face of Uncertainty: The Columbia River Treaty, 2014, April 2-4, 2009, Coeur d’Alene, Idaho
- “Is Carbon the New Cotton?” Holistic Management International, March 7, 2009, Abilene, Texas
- “Alternative Energy Issues – Water,” 2009 Statewide Land Trust Meeting, February 20, 2009, Austin, Texas
- Invited Participant “The Energy-Water Nexus: Managing the Links between Energy and Water for a Sustainable Future,” European Cooperation in Science and Technology, January 19-21, 2009, Brussels, Belgium

Awards & Scholarships

- Distinguished Alumni Award, Texas Tech University 2015
- Best Article Award, ABA Environmental Section Meeting, Austin TX, Oct. 2012
- Our Hero Award, Grace Communications Foundation, December 2012
- Order of the Barristers Award 2004/2005
- Donald M. Hunt Outstanding Barrister Award 2005
- Texas Tech Horn Professors Graduate Achievement Award, Semi-finalist 2005
- State Bar of Texas Buck J. Wynne Memorial Scholarship Recipient 2004/2005
- Energy & Mineral Law Foundation Scholarship Recipient 2004/2005
- Texas Tech Regent Scholarship Recipient 2002/2003, 2003/2004, 2004/2005
- State Bar of Texas Moot Court Competition, 3rd Best Oral Advocate, July 2004
- Outstanding Student Article Award, Texas Tech Law Review Volume 35, 2003-2004

Memberships and Certifications

- Member – Faculty Senate St. Mary’s University – Selected by Faculty (2015-present)
- Title IX Investigator – St. Mary’s University (2015-present)
- Member – Citizen Planning Institute District 7 Representative – Appointed by City Councilperson Chris Medina (2015-present)
- Board of Directors – Phil Hardberger Park Conservancy (2014-present)
- Board of Directors & Volunteer – Rape Crisis Center (2013-present)
- Board of Directors – Greater Edwards Aquifer Alliance (2012-2015)
- Member – Capital Improvements Advisory Committee, San Antonio Water Systems – City Council Appointed by Mayor Julian Castro (2013-present)

- Member - Citizen Conservation Committee, San Antonio Water Systems - Appointed by SAWS Board (2013-2014)
- Licensed to practice in State of Texas and Western District of Texas
- Vice-Chair Resource Management Commission, Appointed by Councilmember Laura Morrison, Austin Texas (2009-2010)
- Member – Board of Directors, University of Texas Environmental Law Clinic (2008-2011)
- Member - Phi Delta Phi, Texas Tech School of Law (2003-2005)
- State of Texas Registered Professional Geoscientist #703

San Antonio Water System Board of Trustees (SAWS) Other Northeast Quadrant	Application No: No: 20180214144703_6526
ELIGIBILITY	
Are you a qualified voter in the City of San Antonio?	Yes
PROFILE	
Prefix	Mr
Last Name	McGee
First Name	David
Middle Name	P
Suffix	
Preferred Name	David
Gender:	Male
Ethnicity:	Non-Minority
Title	Mr.
Address Type?	Residence
Address	
City	San Antonio
State	TX
Zip	
Phone Type?	Cell
Phone number	
Phone 2 Type?	Business
Phone 2 number	
eMail	
Employer	Amegy Bank

Job Title	President and CEO
Occupation	Banker
Date of Birth	
Board/Commission/Committee Name	San Antonio Water System Board of Trustees (SAWS) ~Other~Northeast Quadrant~06
QUESTIONS	
If this board position requires residency within Bexar County, the City of San Antonio city limits or within a particular council district, do you meet those residency requirements?	Yes
Are you a City of San Antonio resident?	Yes
San Antonio Resident Length - Years	37
In which City Council District do you reside?	08
How many years have you lived in the City Council District where you reside?	01
Do you or any of your immediate family members or any businesses that you or they own currently have any direct or indirect financial interest in any contract (s) with the City, including subcontracts?	No
Will you or any of your immediate family members or any businesses that you or they own seek a contract(s) with the City in the foreseeable future?	No
Do you or any of your immediate family members or any businesses that you or they own have any financial interest, direct or indirect, in any sale to the City	No

of any land, materials, supplies, or service?	
Will you or any of your immediate family members of any businesses that you or they own seek or take part, either directly or indirectly, in any sale of land, materials, supplies, or service to the City in the foreseeable future?	No
Does your employer or an employer of your immediate family members have a contract with the City?	No
Do you or any of your family members currently serve or in the past year served as an administrative aide to a Councilmember?	No
Do you currently serve in any elected or appointed public government office?	Yes
Please list office, board or commission, your position in that entity and term of service.	SAWS Board of Trustees 2 years
Are you a member and/or officer and/or employee of any boards, commissions, corporations, non-profit entities, agencies, or other entities?	Yes
Give the title and dates of any position which you have held in such organization:	Employer: Amegy Bank of Texas (Pres. and CEO Central Texas Region) 2007-present, San Antonio Chamber of Commerce (Board member and 2014 Chair) YMCA of San Antonio (11 years on the Board) San Antonio Economic Development Foundation (Board member

	since 2014, Current Board Chair)
Do you receive any compensation for service on this entity(ies)?	Yes
If yes, please describe compensation, for example - \$20 per meeting.	receive salary from Amegy Bank, and \$2,500 from SAWS (which i donate to Baylor Business School)
Do you intend to seek election or appointment to any public office or board or commission in the foreseeable future?	No
Have you ever been hired for a position with the City of San Antonio?	No
Have you had any convictions of criminal offenses other than parking or traffic tickets?	No
Describe your Educational history.	Roosevelt High School (San Antonio Texas) 1975 Baylor University, BBA Economics and Finance degree 1980
Describe your Professional History & Certification designations (Current and historical).	Bank Officer, InterFirst Bank Dallas 1980-83 Vice President, FirstCity Bank Dallas 1983-1986 SVP, Texas Commerce Bank San Antonio 1986 -1989 SVP-President, JPMorganChase San Antonio 1989-2007 President and CEO, AmegyBank Central Texas 2007-Present
Describe your Volunteer Experience & Community Service	x

Please provide a brief narrative outlining your reasons for seeking appointment to this board or commission:	To provide oversight of SAWS business and operations to insure San Antonio has safe, abundant water at the most affordable price, that we employ every reasonable means to conserve water, and our waste water operations protects public health.
APPLICATION SIGN-OFF	
As a board, commission, or committee member, you will be asked to adhere to: Code of Ordinances, City of San Antonio, Part II, Chapter 2, Article IX, Sec.2-534. All board and commission members must file a Financial Disclosure Report with the Office of the City Clerk upon appointment, and annually thereafter, throughout the member's term. Failure to file a Financial Disclosure Report within the time required by the City's Ethics Code will be considered an automatic removal.	
I understand that if any member of the public makes a request for information included in this Application for Appointment, most of the information must be disclosed under the Public Information Act. I understand that the City of San Antonio will attempt to maintain the confidentiality of highly private matters by seeking an Attorney General's opinion in accordance with the Public Information Act. I understand that it may not be legally	Acknowledged

possible to maintain the confidentiality of such information, and I hereby release the City of San Antonio, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Public Information Act or any other law requiring its release.	
I recognize that I am an applicant for San Antonio Water System Board of Trustees (SAWS)~Other~Northeast Quadrant~06, as a City of San Antonio board or commission that is more than advisory in nature. As a city officer, I understand that I, my immediate family members, and any business in which I and/or they hold a 10% or greater ownership interest will be prohibited from seeking or accepting contracts with the city for the duration of my service on this board. I further understand that this restriction will extend with regard to many types of discretionary contracts for a period of one year after leaving city service.	Acknowledged
OATH: I have read and understand the guidelines set out in this application. The foregoing statements are true, accurate, and complete. I agree that any misrepresentation or omission of facts may result in my disqualification for appointment.	Acknowledged
I further request, as a part of my application, that all law enforcement officials and criminal justice agencies release any criminal history records concerning me to the Office of the City	Acknowledged

Clerk of the City of San Antonio in order that qualifications may be checked.	
Enter Your Name	David McGee
Date of submission.	2/14/2018
The Texas Public Information Act provides that each government official may choose whether to allow the public access to the information in the custody of the City that contains your home address, home telephone number, or reveals whether you have family members. Please note that this does not apply to business addresses, which are subject to public disclosure. If an open records request is filed requesting to view or obtain records that contain your personal information, the City will take steps to protect your personal information as authorized by the Texas Public Information Act, but only if you have elected to protect personal information.	
I want the public to have access to my Home Address.	No
I want the public to have access to my Home Telephone Number.	No
I want the public to have access to my Social Security Number.	No
I want the public to have access to my Emergency Contact Information.	No
I want the public to have access to my Family Information.	No
Please attach any additional information, such as a current resume, using the	

Attachments panel at the bottom of this page.	
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San Antonio Water System Board of Trustees (SAWS) Other Northwest Quadrant	Application No: No: 20180212162740_6522
ELIGIBILITY	
Are you a qualified voter in the City of San Antonio?	Yes
PROFILE	
Prefix	Mr.
Last Name	Parra Pirela
First Name	Eduardo
Middle Name	Jose
Suffix	
Preferred Name	Eduardo Parra
Gender:	Male
Ethnicity:	Hispanic
Title	
Address Type?	Business
Address	
City	San Antonio
State	TX
Zip	
Phone Type?	Business
Phone number	
Phone 2 Type?	Cell
Phone 2 number	
eMail	
Employer	Parra and Co., LLC

Job Title	CEO - Principal Engineer
Occupation	Civil Engineer
Date of Birth	
Board/Commission/Committee Name	San Antonio Water System Board of Trustees (SAWS) ~Other~Northwest Quadrant~06
QUESTIONS	
If this board position requires residency within Bexar County, the City of San Antonio city limits or within a particular council district, do you meet those residency requirements?	Yes
Are you a City of San Antonio resident?	Yes
San Antonio Resident Length - Years	09
In which City Council District do you reside?	08
How many years have you lived in the City Council District where you reside?	08
Do you or any of your immediate family members or any businesses that you or they own currently have any direct or indirect financial interest in any contract(s) with the City, including subcontracts?	No
Will you or any of your immediate family members or any businesses that you or they own seek a contract(s) with the City in the foreseeable future?	No

Do you or any of your immediate family members or any businesses that you or they own have any financial interest, direct or indirect, in any sale to the City of any land, materials, supplies, or service?	No
Will you or any of your immediate family members or any businesses that you or they own seek or take part, either directly or indirectly, in any sale of land, materials, supplies, or service to the City in the foreseeable future?	No
Does your employer or an employer of your immediate family members have a contract with the City?	No
Do you or any of your family members currently serve or in the past year served as an administrative aide to a Councilmember?	No
Do you currently serve in any elected or appointed public government office?	No
Are you a member and/or officer and/or employee of any boards, commissions, corporations, non-profit entities, agencies, or other entities?	Yes
Give the title and dates of any position which you have held in such organization:	Opera San Antonio - Board Member - 09/2014 to Present World Affairs Council of San Antonio - Trustee - 2009 to present Brackenridge Park

	Conservancy - Board Member - 2017 to present San Antonio Hispanic Chamber of Commerce - Member - 2009 - present San Antonio Greater Chamber of Commerce - Member - 2009 - present German Marshall Fund of the US - Alumni Council Member - 2017 - present Penn State Alumni Association - Member - 2001 - present
Do you receive any compensation for service on this entity(ies)?	No
Do you intend to seek election or appointment to any public office or board or commission in the foreseeable future?	No
Have you ever been hired for a position with the City of San Antonio?	No
Have you had any convictions of criminal offenses other than parking or traffic tickets?	No
Describe your Educational history.	The Pennsylvania State University, State College, PA, USA - M.S. Civil Engineering, 2001 Universidad Rafael Urdaneta, Maracaibo, ZU Venezuela - B.S. Civil Engineering, 1997
Describe your Professional History & Certification designations (Current and historical).	Professional History: 2016 to Present - CEO / Principal Engineer - Parra and Co - San Antonio, TX 2005 to 2015 - Principal Engineer - CDM Smith -

	Houston, TX / Mandeville, LA / San Antonio, TX 2003 to 2005 - Assistant Professor, Instituto Universitario de Tecnologia Maracaibo - Maracaibo, ZU. Venezuela 2002 to 2004 - Assistant Professor, Universidad Jose Gregorio Hernandez - Maracaibo, ZU. Venezuela 2002 to 2005 - Project Manager - INSALCA - Maracaibo, ZU. Venezuela 2001 to 2002 - Graduate Engineer II - CDM Smith (formerly Camp, Dresser and McKee) - Houston, TX. USA 2001 to 2001 - Graduate Engineer II - CABE Associates - Dover, DE. USA 1999 to 2001 - Research Assistant, Department of Civil Engineering, The Pennsylvania State University - State College, PA. USA 1997 to 1998 - Instructor - Politecnico Santiago Mario - Maracaibo, ZU. Venezuela 1997 to 1998 - Civil Engineer - INSALCA - Maracaibo, ZU. Venezuela Certifications / Licenses: Texas Professional Engineer No. 101217 LEED Accredited Professional in Building Design and Construction GBCI No. 94172
Describe your Volunteer Experience & Community Service	2009 to Present - Energy and Sustainability Committee Member of the Greater San Antonio Chamber of Commerce 2014 to

	Present - Board Member - The Opera San Antonio 2015 to Present - Board of Trustees - The World Affairs Council of San Antonio 2017 to Present - Board of Directors - Brackenridge Park Conservancy 2010 to 2015 - Board Member and Member of the Architectural Committee - Eagles" Bluff Home Owners Association 2009 to 2011 - Board Member - U.S. Green Building Council (USGBC) Texas Balcones Chapter
Please provide a brief narrative outlining your reasons for seeking appointment to this board or commission:	I am passionate about water and about serving my community. I believe that SAWS has a great responsibility of ensuring a strong water future for San Antonio, allowing for sustainable community growth while maintaining cost efficiency. Also, customer, contractors, and developers experience dealing with SAWS should be at the highest standards in order to produce true partnerships for the benefit of the San Antonio community as a whole.
APPLICATION SIGN-OFF	
As a board, commission, or committee member, you will be asked to adhere to: Code of Ordinances, City of San Antonio, Part II, Chapter 2, Article IX, Sec.2-534. All board and commission members must file a	

Financial Disclosure Report with the Office of the City Clerk upon appointment, and annually thereafter, throughout the member's term. Failure to file a Financial Disclosure Report within the time required by the City's Ethics Code will be considered an automatic removal.	
I understand that if any member of the public makes a request for information included in this Application for Appointment, most of the information must be disclosed under the Public Information Act. I understand that the City of San Antonio will attempt to maintain the confidentiality of highly private matters by seeking an Attorney General's opinion in accordance with the Public Information Act. I understand that it may not be legally possible to maintain the confidentiality of such information, and I hereby release the City of San Antonio, and its agents, employees and officers, from any and all liability whatsoever if the information must be released pursuant to the Public Information Act or any other law requiring its release.	Acknowledged
I recognize that I am an applicant for San Antonio Water System Board of Trustees (SAWS)	Acknowledged

~Other~Northwest Quadrant~06, as a City of San Antonio board or commission that is more than advisory in nature. As a city officer, I understand that I, my immediate family members, and any business in which I and/or they hold a 10% or greater ownership interest will be prohibited from seeking or accepting contracts with the city for the duration of my service on this board. I further understand that this restriction will extend with regard to many types of discretionary contracts for a period of one year after leaving city service.	
OATH: I have read and understand the guidelines set out in this application. The foregoing statements are true, accurate, and complete. I agree that any misrepresentation or omission of facts may result in my disqualification for appointment.	Acknowledged
I further request, as a part of my application, that all law enforcement officials and criminal justice agencies release any criminal history records concerning me to the Office of the City Clerk of the City of San Antonio in order that qualifications may be checked.	Acknowledged
Enter Your Name	Eduardo Parra
Date of submission.	2/12/2018

The Texas Public Information Act provides that each government official may choose whether to allow the public access to the information in the custody of the City that contains your home address, home telephone number, or reveals whether you have family members. Please note that this does not apply to business addresses, which are subject to public disclosure. If an open records request is filed requesting to view or obtain records that contain your personal information, the City will take steps to protect your personal information as authorized by the Texas Public Information Act, but only if you have elected to protect personal information.	
I want the public to have access to my Home Address.	No
I want the public to have access to my Home Telephone Number.	No
I want the public to have access to my Social Security Number.	No
I want the public to have access to my Emergency Contact Information.	No
I want the public to have access to my Family Information.	No
Please attach any additional information, such as a current	

resume, using the Attachments panel at the bottom of this page.	
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RÉSUMÉ

Mr. Parra is a civil engineer with 18 years of experience managing or providing key input to municipal and private infrastructure and development projects. He is very keen at selecting the right team for each project always analyzing the level of difficulty and available budget of each while providing a very personalized service to his clients. Mr. Parra provides overall supervision of each of the design team groups, usually including: architectural, civil, structural, mechanical, electrical, plumbing, permitting, Geotech, surveying as well as coordination with the contractor during construction. Mr. Parra has always made an emphasis on implementation of governmental infrastructure projects in an affordable and timely manner. During his career, he has served as engineer-of-record and engineer-in-responsible charge for the design and construction of water and wastewater utility projects, disaster recovery and preparedness efforts, transit projects, stormwater / drainage / flood control projects, civil and coastal engineering, as well as Energy related projects, both in the U.S. and abroad.

WORK HISTORY

CEO / PRINCIPAL ENGINEER – PARRA & CO - 2016 TO PRESENT; SAN ANTONIO, TX. USA

Mr. Parra is the CEO and co-founder of Parra & Co., LLC a woman-owned, emerging small business in South Texas. Parra & Co is an engineering concierge to its clients, providing tailored consulting engineering solutions with a strong emphasis on project management and client service. Mr. Parra also serves as the Principal Engineer of the firm. As CEO, he has shared responsibility for creating and planning the strategic direction of the firm as well as overall responsibility for implementation and integration of it. As the Principal Engineer, he has overall responsibility for every consulting engineering work product in the areas of Water, Utilities, Land Development, Energy, Transit and Transportation that the firm produces.

Parra & Co currently serves municipal clients, transit agencies, private developers, and architects in Texas. Its main office is located at the historical Rand Building in downtown San Antonio, a block from Municipal Plaza. To better serve clients in South Texas, the firm has also a project office in Laredo, on McPherson Road near Jacaman Road.

Parra & Co is a Texas Board of Professional Engineers Registered Firm number . The firm has been certified by the State of Texas as a Historically Underutilized Business (HUB) and by the South Central Regional Certification Agency as a Women Business Enterprise (WBE), Emergent Small Business Enterprise (ESBE), Small Business Enterprise (SBE), Minority Business Enterprise (MBE), and Hispanic American Business Enterprise (HABE).

PRINCIPAL ENGINEER – CDM SMITH –2005 TO 2015; HOUSTON, TX – MANDEVILLE, LA – SAN ANTONIO, TX. USA

Mr. Parra served as a Principal Engineer to Boston's based consulting firm CDM Smith in San Antonio. Prior to that he was a Project Manager in Mandeville, LA and Project Engineer in Houston, TX. During his tenure with the firm, Mr. Parra oversaw business development and operations in South Texas. He was responsible for \$5MM+ of Engineering Portfolio, encompassing Water, Transportation, Energy, and Facilities. His duties extended to business development, client service, and overall project performance. For three years, he also assisted with government relations for more than ten Governor offices throughout the United States.

Mr. Parra also served as one of eight members of CDM Smith's Sustainability Delivery Team from 2007 to 2010 in charge of the Civil Engineering-Sustainability Discipline, where he coordinated research about green stormwater infrastructure, rain gardens, and pervious pavement. Mr. Parra was also part of the Emergent Leaders Program of CDM Smith, where he worked hand in hand with the Executive Leadership of the firm planning how to create and implement new corporate policies to remain as the employer of choice.

During his time in Louisiana, Mr. Parra served as a Deputy Project Manager assisting the community of St Tammany Parish in recovering from the destruction that Hurricane Katrina left in 2005. For almost three years, in a \$20+ million recovery effort, Mr. Parra managed two disaster recovery field offices, while training and supervising a team of ten people on the structural, legal, ticketing/invoicing, and customer service departments while collaborating with the field staff of 150+ monitors. Mr. Parra's team was able to help the community by processing nearly 5000 applications for debris removal, over 500 for home demolitions, and more than 3000 notices for blighted houses. Mr. Parra also served as the liaison between the municipal client and regulatory & funding agencies, including FEMA and the State of Louisiana.

RÉSUMÉ

PRIOR WORK HISTORY

- + 2002 to 2005 – Project Manager – INSALCA – Maracaibo, ZU. Venezuela
- + 2001 to 2002 – Graduate Engineer II – CDM Smith (formerly Camp, Dresser & McKee) - Houston, TX. USA
- + 2001 to 2001 – Graduate Engineer II – CABE Associates – Dover, DE. USA
- + 1997 to 1998 – Civil Engineer – INSALCA – Maracaibo, ZU. Venezuela

VOLUNTEER EXPERIENCE

- + 2009 to Present – Energy & Sustainability Committee Member of the Greater San Antonio Chamber of Commerce
- + 2014 to Present – Board Member – The Opera San Antonio
- + 2015 to Present – Board of Trustees – The World Affairs Council of San Antonio
- + 2017 to Present – Board of Directors – Brackenridge Park Conservancy
- + 2010 to 2015 – Board Member & Member of the Architectural Committee – Eagles' Bluff Home Owners Association
- + 2009 to 2011 – Board Member – U.S. Green Building Council (USGBC) Texas Balcones Chapter

ACADEMIA

- + **Assistant Professor, Instituto Universitario de Tecnología Maracaibo - IUTM (Maracaibo, ZU. Venezuela)** Mr. Parra taught courses of Fluid Mechanics, Water Distribution, Sewer, and Drainage Systems in the Civil Construction Department. He also was the Coordinator of the group for Technological Improvement and member of the Institutional Evaluation Team. Mr. Parra also directed research about Visualization of Turbulent and Laminar Flow using ink traces.
- + **Assistant Professor, Universidad José Gregorio Hernández - UJGH (Maracaibo, ZU. Venezuela)** Mr. Parra taught courses of Mathematics I, II, and Geometry for the Engineering Department.
- + **Research Assistant, Department of Civil Engineering, The Pennsylvania State University (State College, PA. USA)** Mr. Parra proved by the use of scientific lab experiments the relationship between the mixing efficiency in stirring stratified flows and the Overall Richardson Number. He also participated at the 53rd annual meeting of the American Physical Society, Fluid Dynamic Division.
- + **Instructor, Politécnico Santiago Mariño (Maracaibo, ZU. Venezuela)** Mr. Parra taught Fluid Mechanics, Static Mechanics, and Mechanics of Solids.

EDUCATION

- + **The Pennsylvania State University, State College, PA, USA — M.S. Civil Engineering, 2001** (World Bank Sponsorship; Graduate Student Representative of the Society of Hispanic Professional Engineers - SHPE).
- + **RICE University, Houston, TX (USA) — English as a Second Language Program (ESL), 1999**
- + **Universidad Rafael Urdaneta, Maracaibo, ZU (Venezuela) - B.S. Civil Engineering, 1997** (Top 10 percentile of graduating class, completing a five-year program in four years, Teacher Assistant of Fluid Mechanics).

PUBLICATIONS

- + Hill, D.F., A. Vergara, and E. Parra. "Destratification by mechanical mixers: mixing efficiency and flow scaling." *Journal of Hydraulic Engineering*, 2008.
- + McCall, E.J., R.W. Chapin, and E.J. Parra. "Planning a city for tomorrow without filing for bankruptcy." *Magazine of the American Water Works Associations (AWWA) Conference*, San Antonio, Texas, 2002
- + Parra, E.J., and D.F. Hill. "Mixing Efficiency in Stirred Stratified Flows." *Bulletin for the 53rd Annual Congress of the American Physics Society (APS), Fluids Division, Vol. 45, No. 9. ISSN: 0003-0503*. Washington D.C., 2000.