Letter of Interest for President of Colorado Mesa University

Colorado Mesa University
Presidential Search Committee

February 21, 2021

Dr. Abel Antonio Chávez
[redacted]

Dear Trustee Anilionis and Search Committee Members:
Please accept this letter as my sincere and humble expression of interest in leading Colorado Mesa University (CMU) as its next president into the next era.

Submitting this letter carries immense meaning for me as it marks a culmination of hundreds of stories, multiple generations, and decades of commitment, work, and preparation. I am a Colorado native well-prepared and skilled to take on this leadership role. I am a product of Colorado's public education, including a proud graduate of community college in Colorado. I am also a first-generation, first in family, son of immigrants, and bilingual higher education executive passionately committed to leveraging the range of interdisciplinary expertise that have brought me success, to all students from across the Western Slope, Colorado, the country, and the globe. As president I would possess first-hand knowledge of what tomorrow's students require to thrive, a vision for direction, and would tirelessly serve CMU's campus and uphold the mission of fostering "a dynamic learning environment that offers abundant opportunities for students and the larger community to grow intellectually, professionally, and personally."

The challenges facing higher education are many, including shifting demographics, shrinking state support, rising costs, technological disruptions, and increased competition. As a higher education leader and advocate of public education I have first-hand experience across the plethora of internal & external institutional challenges of our sector. Colleagues know me as visionary and aspirational, creative systems-thinking and interdisciplinary problem solver, as well as a great human with unquestionable character. Many often look to me for my exceptional execution, my level-headed and never rattled demeanor, my balanced attentive listening and extraordinary business and industry acumen. I drive objective campus & community centered decisions while also inspiring and motivating all towards excellence.

Currently I serve as the Vice President for Enrollment and Student Success at Western Colorado University. In this role I lead a cross-functional and interdisciplinary team of students, younger emerging professionals, mid-career & senior staff, and doctoral holding professionals. Overseeing a highly mission critical and diverse staff as I do, motivating the team becomes imperative to the university's and community's success. A common thread throughout my career has been my ability to cultivate high performing teams, which I have been able to achieve via genuine balance of support, respect, encouragement, and pathways toward job enrichment and professional development for my staff, while fostering a productive culture of accountability to each other and to our common goals. Considering the challenges of our industry, my ability to couple executive-level skills honed from my long career in multiple industry sectors with those gained from multiple university functions will be an imperative to our success.

I have held several positions in global corporations including Ball Corporation, the Dow Chemical Company, and Anheuser-Busch, and in my own entrepreneurial ventures. These experiences have equipped me with the rich set of transferable skills I use today, which I would bring to CMU to collaboratively lead this great institution. Skills such as leading, partnering, and facilitating cross-functional teams; managing large budgets; data analysis; conceiving, scoping, and delivering projects on time and on budget to internal & external stakeholders; vision and roadmap creation; strategically positioning existing

offerings and creating viable new offerings; and always acting in ways coherent to the organization's best interests. My roles in higher education have strengthened, scaled and complemented these skills.

As a campus leader I am unique in that I have held several higher education positions allowing me to intimately learn the complexity of the university operation. As a researcher I have published in my discipline's top scientific journals, books and been lead author of multiple global assessments. As a faculty I have built new academic programs from the ground-up, injected my cutting-edge, global, and societal relevant work to create rigorous learning experiences for my students that are engaging, active, integrative, and project-based all in dynamic real-world settings, and have created countless ventures for students. As an Associate Vice President for Academic Affairs I scaled my excellence in teaching across campus, created innovative programs for faculty, embedded continuous improvement processes, and developed novel cash funded revenue streams. As Graduate Dean I collaborated with graduate programs to chart the School's vision and set its strategic direction to embody the tenants of diversity, creativity, innovation, and programs & pedagogy to elevate the institution and region's economic goals through the creation of new & cutting-edge programs and inter-institutional partnerships with domestic and international universities. For all of the forward-thinking innovations I have catalyzed in higher education, I have continually embraced and partnered with shared governance to promote common goals.

As a senior administrator I am humbled by the opportunity to serve as a thought and change leader who enhances the institution's portfolio and market position through rigorous program-, market-, and strategic-analysis. Under my leadership we are creating, enhancing and positioning programs in relevant in-demand fields that serve the needs of students and our communities. With a keen sense of the changing market, I lead the creation of a portfolio of offerings to transform how and when we serve students. I enthusiastically model the adoption of process-oriented and customer-centered design to enhance student satisfaction and drive value at all levels. A core value of mine is promoting access and equity, addressing the achievement gap, and aligning with the State's Master Plan. I work tirelessly to create innovative partnerships to fund student services and financial aid opportunities. My deep understanding of the changing and diversifying demographics and market landscape, the drivers of college choice, as well as the political, economic and technological forces affecting our industry enable me to architect programs and services that lead to increased retention and completion rates that drive financial sustainability.

In this rapidly shifting marketplace, as president I would engage on- and off-campus stakeholders and the Trustees to maintain tuition affordability through donor engagement, state legislation, grant efforts, and diverse sustainable revenue streams. I would also make it an imperative that we, together as one campus, embrace excellence in teaching and a suite of wraparound services to elevate our students to success. In a highly competitive landscape with several alternatives and low switching costs, I would rely on my fundamental leadership attributes to partner and empower the campus to leverage our shared governance to create programs that not only align with the economic needs of the region but also differentiate and build CMU's brand. It is my hope that across the region, a CMU Maverick would be synonymous with professionals who are kind humans, systems-, complex-, and multidisciplinary-thinkers, rigorous yet versatile, and life-long learners willing to take on the world's grandest challenges.

President Foster has led the transformation of CMU into a world-class institution. As a Coloradan I am thankful to him as he has elevated education in our State. I observe that CMU's latest strategic plan was the 2020 Strategic Plan, approved in January 2016. I would welcome the opportunity and great responsibility to apply my strategic planning experience to partner with the entire campus community to commence the development of the next Strategic Plan. The last year alone has introduced significant shifts to the education landscape that have revealed clear opportunities for success. A well-positioned and world-class institution like Colorado Mesa University can certainly thrive in this environment.

DR. ABEL ANTONIO CHÁVEZ

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PROFESSIONAL EXPERIENCE

Western Colorado University Gunnison, CO

Vice President for Enrollment and Student Success 2019 – Present

- Leading enrollment growth, increased retention and graduation rates, and enhanced student outcomes.
- Instilling the use of data, statistics, project management, and strategic thinking across the division to drive sound business decision making about teaching, learning, and program development.
- Creating campus-wide vision and strategy for innovative and forward-thinking initiatives that serve a diverse student body.
- Lead on re-envisioning cross-cutting student-centered services for retention and outcomes.
- Catalyzing a focused and strategically aligned portfolio of academic and student services programs, e.g., open education resources, rural and URM student scholarships, practicums, multi-disciplinary project accelerator, project-based learning, experiential learning, speaker series, among others.
- Adopting a division wide Curricular Approach to Student Success to streamline resources, enhance the entire student life cycle, and foster a learning organization.
- Maximizing the student experience and university profits through the adoption and scaling of continuous improvement principles throughout the organization.
- Principal author of the institution's first Strategic Enrollment and Student Success Plan.
- Cabinet member on the campus-wide Strategic Resource Allocation (SRA) study.
- Creating industry and community partnerships for student-centered learning and career opportunities.
- Developing inter-institutional partnerships to reimagine and reconfigure pathways to student degree completion that are lower cost and accelerated.
- Leading academic disciplines in market analysis, market positioning, and strategic re-alignment for sustained growth and competitive advantage.
- Facilitating and leading the senior team through a visioning and strategic alignment exercise.
- Active and engaged senior member of President's Cabinet reporting directly to the President.
- Campus facilitator for all COVID-19 response and planning, including the formation and convening of the COVID-19 Task Force, and COVID-19 Extended Cabinet Group.

Dean, School of Graduate Studies 2017 – 2020

- Achieved 23% annual enrollment growth via: new graduate program development, accelerated programs, certificate creation, strategic partnerships, strategic and visionary leadership.
- Envisioned and created innovation fund to rapidly and dynamically implement school wide recruitment actions in pandemic disrupted cycle, resulting in 6% year-to-year enrollment growth.
- Collaboratively and with shared governance, set, created, and executed SGS strategic plan pillars.
- Created rigorous set of financial and operational metrics to measure and track program health.
- Conceived and created the Dean's Award for Inclusive Excellence for campus-wide engagement.
- Envisioned and provided strategic leadership for School of Graduate Studies capital campaign.
- Incorporated synchronous and asynchronous modalities to residential and distance students netting cutting-edge programs and approaches to pedagogy, and research opportunities.
- Engaged and active participation in university strategic planning: Marketing and Enrollment; Student Academic Success; Sustainability; and Diversity, Equity, Inclusivity, and Internationalization (DEII).
- Led the creation of new international partnerships including: [Mexican institutions] Tec de Monterrey, Anáhuac-Puebla, Universidad Intercultural Maya de Quintana Roo, Universidad del Medio Ambiente; [several others] Instituto Tecnológico Metropolitano de Medellín (Colombia), Universidad del Desarrollo (Chile), East Kazakhstan State Technical University, Pavlodar State University.
- Established goal and direction towards becoming a Minority Serving Graduate School including relevant programming such as the Dean's Award for Inclusive Excellence.
- Cultivated unique partnerships for the creation of scholarships and practicum opportunities for aspiring students from minority, first-generation, and rural backgrounds.

Associate Vice President for Academic Affairs 2017 – 2019

- Provided campus-wide thought leadership on instruction, pedagogy, and research.
- Chair of the Diversity, Equity, Inclusivity, and Internationalization (DEII) Committee.
- Created campus-wide Open Education Resources (OER) vision that includes faculty stipends, zero textbook cost pathways, and research initiatives.
- Leading university towards Campus of Inclusive Excellence.
- Aid Cabinet with the conception and integration of the Rady School for Computer Science and Engineering.
- Served on President's Cabinet.
- Supervised Office of Extended Studies (ES). Creating new forward-thinking cash funded programs, institutes, certificates, and international faculty-led courses.
- Supervised Online Education Director (OED). Campus-wide transition to Canvas, collaborating with faculty to create general education online, developing training modules for faculty, enhancing technology.

Associate Professor, School of Environment and Sustainability 2014 – Present

- Excellence in teaching with evaluations ranging between 4.5 – 4.9 (out of 5).
- Tenured Faculty in the School of Environment and Sustainability.
- Founder and Director, Community Solutions Incubation + Innovation (CS2I) Lab.
- Active in department strategy, marketing, recruitment, and development.
- Scoping, budgeting, and overseeing community-based projects and partnerships in energy management, community resilience, climate action planning, infrastructure assessments, and community development.
- Community-based research agenda with a keen focus on rural, remote, Spanish speaking, indigenous, and global south (Mexico and Latin American) communities.
- Leading the creation and implementation of multiple innovative scholarship initiatives, including: the multi-county Colorado Opportunity Scholarship Initiative (COSI), and, IME Becas.
- Founder and faculty mentor for SACNAS @ Western; a science, technology, engineering, and mathematics (STEM) national organization serving students from minority and underserved groups.

Director, Sustainable and Resilient Communities, School of Environment and Sustainability 2014 – 2017

- Faculty and founding-director, Master in Environmental Management (MEM) Sustainable and Resilient Communities (SRC) track.
- Start-up director of the SRC track – led track to over 70 students, annually.
- Created SRC track strategy, marketing direction, recruitment initiatives, and overall development, and supervised faculty team through execution.
- Continued support, engagement, and leadership in cross-cutting and dynamic program creation: MBA (2015), Engineering (2015), and 'Social' Engineering (2017).
- Facilitated the formation of international exchange programs: EducationUSA Leadership Institute with CDHE; Dept. of State Capacity Building Grants.

Potsdam Institute for Climate Impact Research (PIK) Potsdam, Germany

Research Fellow 2013 – 2014

- Led the formation and development of research domain on Community-Scale Metabolic Flows.
- Research interests in sustainability and resiliency of developed and industrializing communities.
- Developed methods & models to study drivers of community materials & energy use, and GHG emissions.

University of Colorado Denver Denver, CO

Postdoctoral Research Fellow 2012 – 2013

- Project and partner development for the Center for Sustainable Infrastructure Systems (CSIS).
- Developed database for city-scale Material Flow Analysis (MFA) and Life-Cycle Accounting (LCA).
- Steering, and Life-Cycle Committee member for ICLEI-USA city-scale GHG emission accounting protocol. Completed and published October 2012.
- Advisor to London-BSI Community-Scale GHG Protocol, and WRI on Global Protocol for Communities.

University of Colorado Denver Denver, CO

PhD Candidate 2008 – 2012

- Dissertation Title: *Comparing City-Scale Greenhouse Gas Accounting Methods: Implementation, Approximations, and Policy Relevance*.
- Managed and oversaw a portfolio of environmental interdisciplinary GHG Inventory and mitigation projects integrating MFA, LCA, and community-based participatory research.
- International partners and case studies: Shanghai, Delhi, Manila, 40+ US cities (NYC, Miami, others).
- Other partners include Tongji University, Delhi Government, De La Salle University, TERI University, Yale, ICLEI-South Asia, and ICLEI-USA.
- Technical and Policy Advisor to cities (e.g., City and Counties of Denver, San Francisco, and others).
- Lead trainer on national Philippine effort to build capacity in community GHG emissions inventories. Trained over 50 communities and over 200 city staff in the Philippines.
- Facilitated sustainability (science) training & policy round tables/workshops with partner communities.
- Interdisciplinary work across Engineering, Public Affairs, Economics, Behavioral Sciences, Planning.
- Expert on collection, analysis, and communication of energy data for GHG emissions inventory computations to a wide range of interdisciplinary audiences/stakeholders.
- Implemented city-scale GHG emission mitigation strategies for cities.
- Expert knowledge of ICLEI, EPA, and WRI GHG Protocol frameworks.
- Actively informed Community GHG Accounting Protocols: ICLEI-USA and C-40.
- Presented at international conferences, and authored international publications.

Chávez Consulting, Inc. Denver, CO

President/Owner 2006 – 2008

- Consulting focused on Operational Development, Project Management, and Process Improvement.
- Key resources: Six Sigma, Lean, Project Management, and Process & Financial Analysis.
- Strategic Management, Sales & Project goals, and Scoping.

Anheuser-Busch, Inc. Houston, TX

Category Project Manager 2005 – 2006

- Successfully managed all aspects of multi-state category resets in condensed and aggressive period.
- Resets were accompanied by quantitative data report, presentation, and technical instructions.
- Managed internal (distributors) and external (retail chains) stakeholder relationships.
- Designed and delivered Texas and Louisiana statewide trainings focused on operational efficiencies.
- Managed multiple accounts in Texas and Louisiana, and maintained expense budgets within limits.
- Developed sensitivity analyses to provide strategic recommendations based on maximum profits.

International Business Residency Beijing, Shanghai, Singapore

Participant/Attendee 2005

- Established meetings with numerous executives from firms such as Deloitte & Touche, and Black & Decker, across China and Singapore.
- Identified and proposed strategies to create synergistic alliances with American counterparts.
- Led the creation of proposals to eliminate communication breakdowns from cross-cultural differences.
- Studied the financial impacts of doing business outside of the United States.

The Dow Chemical Company Freeport, TX

Capital Project Manager/Six Sigma Black Belt/Improvement Specialist 2003 - 2005

- Led all capital initiatives, while managing a budget of over $3MM & over 30 projects, and developed cash flow analysis and cash flow projections for each project.
- Led the identification and execution phases of multiple Six Sigma projects through the DFSS & DMAIC project roadmaps.
- Six Sigma projects: Emission Reduction, Rail Car Loading, Capital Spending, and Pump Enhancement.
- Created and documented plant procedures, to include Goal, Scope, and System Modeling for every Six Sigma, Improvement, and Capital Project.
- Focused on safety, led morning safety meetings and followed OSHA standards, and achieved an injury free record on all projects.

- Facilitated executive business meetings between North American, South African, and German facilities to scope capital opportunities, develop annual budgets, enhance policies, and track performance.
- Successfully developed and managed, *Capital* & *Improvement* plant teams.

Mechanical/Pressure Containment Equipment Engineer 2003

- Led the mechanical discipline thru multiple simultaneous projects in various technologies.
- Initiated mechanical equipment training sessions to improve teams discipline knowledge.
- Implemented Dow's Most Effective Technology *(MET)* with competitive advantage as the catalyst.
- Researched and established various vendor relationships that netted over $200K in cost-savings.

Production Engineer 2002 - 2003

- Achieved 95% on-line time during increased customer demand era while liable for production line.
- Coordinated maintenance revisions and checks, for critical pieces of equipment.
- Planned and executed crucial Air Regulation project within 4 working days to avoid plant shutdown, and state fines.

Ball Corporation Broomfield, CO

Associate Engineer 1999 - 2002

- Led the design of aluminum can body extruding tooling.
- Designed and implemented new can measuring robotic mechanism within $75K budget.
- Worked with Internal plant personnel to model Broomfield R&D facility.

EDUCATION

University of Colorado Denver Denver, CO

Doctor of Philosophy in Civil & Environmental Engineering [redacted]

University of Houston Bauer College of Business Houston, TX

Master of Business Administration (MBA) [redacted]

University of Colorado Denver Denver, CO

Bachelor of Science in Mechanical Engineering [redacted]

Front Range Community College Westminster, CO

Associate of Science [redacted]

PUBLICATIONS

Vázquez, I., Chávez, A., Madrid, C., Villalba, G. (2020). A Life Cycle Based Electricity Carbon Footprint: The Case of Puebla, Mexico. In Press.

UCCRN. (2019). Urban Energy Supply Sector: Challenges and Opportunities for Low-Carbon, Resilient and Just Cities. Lead Author, Chapter 8 in *Climate Change and Cities: Second Assessment Report of the Urban Climate Change Research Network (ARC3-2).*

Chávez, A., Kennedy, C., Chen, B., Chertow, M., Baynes, T., Chen, S. & Bai, B. (2018). Urban Metabolism: Resource flows, the urban boundary, and resilience. In Future Earth (Ed.), *The Urban Planet: Knowledge towards livable cities.*

Chávez, A. (2017). Key Drivers and Future Trends of Urban Carbon Emissions. In *Low Carbon Cities, Future Science.*

Pichler, P.P., Zwickel, T., Chávez, A., Kretschmer, T., Seddon, J., & Weisz, H. (2017). Reducing Urban Greenhouse Gas Footprints. Nature, Scientific Reports, 7, 14659.

IPCC. (2014). Climate Change 2014: Mitigation of Climate Change. *Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change.* Contributing Author to Chapter 12 on Human Settlements.

Chávez, A. (2012). Comparing City-Scale Greenhouse Gas (GHG) Emissions Accounting Methods: Implementation, Approximations, and Policy Relevance. *PhD Thesis.* University of Colorado Denver.

Chávez, A. & Ramaswami, A. (2013). Articulating A Trans-Boundary Infrastructure Supply Chain Greenhouse Gas Emission Footprint for Cities: Mathematical Relationships and Policy Relevance. *Energy Policy, 54,* 376-384.

Chávez, A. & Ramaswami, A. (2013). How large are the total energy supply-chains serving cities? Coverage by territorial, infrastructure and consumption-based carbon footprints. *Environ. Sci, Technol.*

Chávez, A., Ramaswami, A., Dwarakanath, N., Ranjan, R., & Kumar, E. (2012). Implementing Trans-Boundary Infrastructure-Based Greenhouse Gas Accounting for Delhi, India: Data Availability and Methods. *Journal of Industrial Ecology. 16* (6), 814-828.

Chávez, A. & Ramaswami, A. (2011). Progress Toward Low-Carbon: Approaches for Trans-Boundary Greenhouse Gas Emissions Footprinting for Cities. *Carbon Management, 2* (4), 471-482.

Ramaswami, A. & Chávez, A. (2013). What metrics best reflect the energy and carbon intensity of cities? Insights from theory and modeling of 20 US cities. *Environ. Res. Lett, 8.*

Spork, C.C., Chávez, A., Durany, X.G., Patel, M.K., & Villalba, G. (2013). Applying real-time emission factors to increase accuracy in GHG accounting for electricity: A case study for Spain. *Journal of Industrial Ecology*.

Ramaswami, A., Chávez, A., & Chertow, M. (2012). Carbon Footprinting of Cities and Implications for Analysis of Urban Material and Energy Flows. *Journal of Industrial Ecology, 16* (6), 783-785.

Ramaswami, A., Bernard, M., Chávez, A., Hillman, T., Whitaker, M., Thomas, G. & Marshall, M. (2012). Quantifying Carbon Mitigation Wedges in US Cities: Near-Term Strategy Analysis and Critical Review. *Environ. Sci, Technol., 46* (7), 3629-3642.

Ramaswami, A., Chávez, A., Ewing-Thiel, J., & Reeve, K.E. (2011). Two Approaches to Greenhouse Gas Emissions Footprinting at the City-Scale. *Environ. Sci, Technol., 45* (10), 4205-4206.

Ramaswami, A., Main, D., Bernard, M., Chávez, A., Davis, A., Thomas, G., & Schnoor, K. (2011). Planning for Low-Carbon Communities in US Cities: A Participatory Process Model between Academic Institutions, Local Governments and Communities in Colorado. *Carbon Management. 2* (4), 397-411.

Pattison, A. Chávez, A., Ramaswami, A., & Gifford, B. (2009). A Review of Green Job Estimations for Colorado. Presented at Wal-Mart Green Jobs Council Summit.

GUEST LECTURES, SEMINARS AND PRESENTATIONS

Instituto Tecnológico Metropolitano (ITM). Cadenas de Suministro y Sostenibilidad. Vive Conferencia Global. Keynote Address. December 2020.

Instituto Tecnológico Metropolitano (ITM). Ecología Industrial. University Course. Medellín, Colombia. September and October 2019.

Instituto Tecnológico Metropolitano (ITM). Industrial Ecology and the future. Medellín, Colombia. September and October 2019.

The Colorado-Wyoming Louis Stokes Alliance for Minority Participation (CO-WY AMP). Keynote Address. April 2019.

Colorado School of Mines. Integrating Sustainability and Resilience One Community At A Time: Perspectives, Best Practices, and Tools. Golden, Colorado. September 2018.

Tec de Monterrey, Puebla Campus. 2do Congreso de Sustenibilidad, Ecología Industrial Por un Sector Energético Sustentable en México. Puebla, Mexico. August 2018.

Project-Based Learning Workshop. Colorado School of Mines. Golden, Colorado. April 2018.

National Institute of Standards and Technology (NIST). Advancing Urban GHG Inventory Development for Science and Mitigation Management Needs, Washington, D.C. September 2017.

University of California San Diego, Addressing Critical Issues and Transitions in the STEM Pipeline, San Diego, California. January 2017.

Clemson University, Who's Not At The Table? Building Research Capacity for Underserved Communities in Engineering, Clemson, South Caroline. November 2016.

Lecturer and Visiting Scholar at Pavlodar State University (PSU), Pavlodar, Kazakhstan. Material Flow Analysis and Life-Cycle Assessment of Natural Resource Extraction Industries. October 2015 and May 2016.

Lecturer and Visiting Scholar at the Autonomous University of Barcelona (UAB), Barcelona, Spain. Economic Input-Output Analysis for Life-Cycle Assessment and Environmental GHG Accounting. October 2012, May 2013, and November 2013.

Public Lecture/Seminar, *City-Scale Greenhouse Gas Emissions Accounting Methods: A Perspective of The Nature and Size of Supply-Chains Serving Cities*. Presented at the Autonomous University of Barcelona, Institute of Environmental Science and Technology (ICTA) and Joint European Master in Environmental Studies (JEMES), October 2012.

DISCCRS (DISsertations initiative for the advancement of Climate Change ReSearch) VIII Symposium Scholar. Colorado Springs, CO. October 2013.

Chávez, A. Comparing Different Greenhouse Gas Emission Footprint Methods and Metrics to Represent the Energy and Environmental Performance of Cities. International Society for Industrial Ecology (ISIE). Ulsan, South Korea, June 2013.

Chávez, A. Urban Metabolism, LCA, and GHG Footprints for Cities. Workshop on Sustainable Urban Systems. UNESCO, Paris, France, June 2012.

Chávez, A. Nature and Size of Supply-Chains Serving Cities. Gordon Research Conference on Industrial Ecology. Les Diablerets, Switzerland, June 2012.

Chávez, A. Toward Low Carbon Cities. Philippine League of Local Environment and Natural Resources Officers, Inc. (PLLENRO) National Conference. Cebu City, Philippines, November 2011.

Chávez, A., & Ramaswami, A. Two GHG Emission Accounting Approaches: Trans-Boundary Infrastructure Supply Chain, and Consumption-Based GHG Footprints. American Center for Life Cycle Assessment (ACLCA). Chicago, IL, October 2011.

Chávez, A., & Ramaswami, A. Comparing Geographic, Geographic-Plus Infrastructure Supply Chain, and Consumption-Based Greenhouse Gas Accounting Methods for US Cities. International Society for Industrial Ecology (ISIE). Berkeley, CA, June 2011.

Chávez, A., & Miller, L. Center for Sustainable Infrastructure Systems (CSIS) and City-Scale GHG Emissions Accounting. New Delhi International Conference on Cities and Climate Change. Delhi, India, February 2011.

Ramaswami, A., & Chávez, A. Are We There Yet? Measuring Progress Towards Low-Carbon Trans-Boundary Challenges in City-Scale Greenhouse Gas Accounting. US-China Workshop on Low-Carbon Cities. Hong Kong, China, December 2010.

Chávez, A., & Ramaswami, A. Hybrid Greenhouse Gas Accounting Methodology for Cities: Past Work & New Developments. American Center for Life Cycle Assessment (ACLCA). Portland, OR, November 2010.

Chávez, A., & Ramaswami, A. Greenhouse Gas Emissions Accounting: Framework and Innovations at the City-Scale. Colorado Environmental Health Association (CEHA). Colorado Springs, CO, October 2010.

Chávez, A. Greenhouse Gas Emissions Accounting at the City-Scale. SACNAS. Anaheim, CA, October 2010.

TEACHING

Analysis and Development of Sustainable and Resilient Infrastructure
Western Colorado University

Building and Planning Communities
Western Colorado University

Science of Sustainability and Resilience
Western Colorado University

Industrial Ecology: MFA and LCA
Western Colorado University

Natural Resource Systems: F-E-W Nexus and LCA
Western Colorado University

Science of Climate Mitigation and Adaptation
Western Colorado University

Environmental Organization Development and Management
Western Colorado University

Environmental Policy and Politics
Western Colorado University

Urban Metabolism and Life-Cycle Assessment
Visiting Scholar – Autonomous University of Barcelona

Introduction to Sustainable Urban Infrastructures
Adjunct Faculty – University of Colorado at Denver

Engineering Management and Leadership
Adjunct Faculty – University of Colorado at Denver

SERVICE TO THE PROFESSION

- Faculty Mentor and Advisor: Project Kaleidoscope (PKAL) of the Association of American Colleges & Universities (AAC&U). Summer 2019.
- Fellow: National Academies of Sciences, Engineering, and Medicine (NASEM). New Voices in Sciences, Engineering, and Medicine (SEM).
- Editor of 2019-2020 special issue titled: Applications of Urban Metabolism and the Progress Towards Sustainable Cities. Sustainability.
- Proposal reviewer: National Science Foundation (NSF) – *Education and Human Research (EHR),* and *Department of Undergraduate Education (DUE)* – Hispanic Serving Institution (HSI). Fall 2019.
- Proposal reviewer: National Science Foundation (NSF) – *EHR Core Research (ECR) Fundamental Research in Science, Technology, Engineering and Mathematics (STEM) Education.* Spring 2015.
- Member of Steering and Life-Cycle Committees for ICLEI-USA city-scale GHG emission accounting protocol. Completed and published October 2012.
- Reviewer for: *Environmental Science & Technology*, *Energy Policy*, *Journal of Industrial Ecology*, *Carbon Management*, *Journal of Life-Cycle Assessment*.

SELECT PUBLIC SERVICE & HONORS

Ohtli Award. For service to the Mexican Community Abroad. Mexican Government	2019 – 2020
Planning Committee member for the Mexican Cultural Center	2020 – Present
INSPIRE Colorado – Volunteer	2019 – Present
Founding Member Red Global MX Rocky Mountain Region	2018 – Present
Gunnison County Energy Task Force – Committee Member	2017 – Present
Colorado MESA (Mathematics, Engineering, Science, Achievement)	2008 – 2013
University of Colorado, Denver – Scholarship Committee Board Member	2006 – 2013
Open World Learning *(OWL)* – Mentor and Ambassador	2006 – 2017
SACNAS Summer Leadership Institute	2013
Center for Progressive Leadership Fellow	2010
Coldharbour Sustainable Living Institute – Board Member	2014 – 2016
INROADS (Colorado & Houston) member, alumni, and institute facilitator	2002 – 2012
National Society of Hispanic MBA's – Board of Directors	2007 – 2008
Houston's professional chapter of Minority MBA Association – Officer	2004 – 2005
Focal Point at local elementary school for mentoring and tutoring initiative – Dow Focus	2004 – 2005
Dow Chemical Hispanic Latin Network – Implementation Leader, Freeport Site	2004 – 2005
Society of Hispanic Professional Engineers – President, CU Chapter	2001 – 2002

SKILLS

Spanish (native), English (native), Six Sigma Green Belt Certified, Six Sigma Black Belt
Strategic Analysis, Financial Analysis, Operational Analysis, Market Analysis, Project Management, Organizational Behavior, Strategic Planning, Executive Leadership, Fundraising
Software: MS Office Suite, MS Project, MS Visio, R-Studio, Matlab, JMP, Minitab