A-Professional Preparation: Degrees, Training and Certifications

- x Diploma in Chemical Engineering, Universidad Nacional del Litoral, Santa Fe, Argentina, 1977
- x Training, National Council of Research, ACOMICIE pstgraduate Studies 19938
- x Certificate of English Studies, Anglo Continental School of English, Bournemouth, UK, 1981
- x Master of Science, Chemical Engineering, Purdue University, WestUSAfayotte, IN 47907
- x Ph. D., Chemical Engine Primgue University, West Lafayette JSN, 49907
- x Regents Academic Leadership Certificate, Chair Academy and Tennessee Board of Regents, 2007
- x Certificate of Advanced Academic Leadership, Chair Academy, 2010.
- x Certificate of Provost Leadership Developm

E-Professional Societie Membership and Service

1 American Society ineering Education (ASTEE) Member (pendiorgy) or Chair the Administrative Division of the ASESE-2. American Institute of Chemical Engir) essent (Art Chair Academy; Life Mesoberty of Hispanic Professionas (Supplessociety of Women Engineers (SWE) Purdue Alumni Association Member Royal Society of Check into by deep Large and Scien (AEEBR) fees foots member of the American Electrophoresis Society (AEES) his time as a member of the AES Board of Directors, he played a vital rethe society to become financially stable. As part of this effort, AES become are described in the AIChE where young professional differently with more senior members. As part Dof. Alresa sefforts, also been the facilitate facilitator of numerous educational and technical works hop safer these rinternational organization when of numerous review panels for the Describe on site visiting team, ERC-NSF-Program

F- Publication Board of PeReviewed Journals

1.Journal of Chemical Engineering Educationnsecuttivelyearters 2 Brazilian Journal of Chemical Engineering (current members) ronments (MDPI, current) - Marebent Patents in Biotechnology (Bentham House Publishersrentember 4. Critical Conversations (Tennessee Board of Regents, TBR).

G-Publications and Other Releases

Dr. Arce has authored-authcored more than one hundred and viietye pepublications, teachanical education perfoceedings, and invited book chapters in his focused areas of research and engineering endelivered more than enumered fifty technical and educational presentations (with students and collar more than seventy invited, keynote or plenary lectures in the United States of America is security and from the publications in engineering teach have received prestigious Thomas C. Evans Award from the ASEE for the most testanding paper in engineering educations him the only faculty in the history of the award to it five times. Arce is the notion of five the absolute testanding bublication and mentoring.

1. Royal Society of Chemistry, CambElegeedUKell6ov extensive contributions to education, research, a

H-Honors, Awards and Distinctions (Selected)

- service to the chemical engisteenimes (Q2).

 2. Tennessee Technoloditizaersit (Schoair Mentor Awafrodr excellering scholarly astroludent/facrotelrytoring)
- Tennessee Technologitivalersit Sychoatr Mentor Awafrodr excellerings cholarly astrological action (2022).
- 4. America Society of Engineering Education, SE: Thomas C. Evans Avants fanding Paper in Engineering Education (1994, 2001, 2008; 2014, and 2021).
- 5. American Society for Engineering Educat Reg (ALS) East Paper Award for the devetopment of Renaissance Foundry Model (2015).
- 6. Tennessee Technological University or, mpsestigious av francexcellence in research).
- 7. Chair AcademyU , .DUUH \$ZDUG IRU RXWV(1200012020104)J 32Q & DPSXV / HD
- 8. National Science Foundartignimeering Research Center Annual (etylneor tien by ecture Q 37KH & RPSRVF 6W\OH (QJLQHHU DV D, 0WRash Hogo of R, DC,)QQRYDWLRQ′
- 9. Board of Rents, Florida University System. Teaching Incentive Program Award (TIPA) for Excellence Most prestigious award for Excellence in Teaching, 1994

 10 Eulbright Faculty Developmental Program for Latin America. Invited Program for Latin America. Invited Program for Latin America.
- 10Fulbright Faculty Developmental Program for Latin America. Invited Rectel (Rebilie Paraguay, and Uruguay), 1994.

I-Fund Raising Efforts(Hghlights)

Dr. Arce has bewardedpinivatestate, federal and intergranteomathent soundpersoximately \$8 MUSA dollars for supporting his research and educational efforts include: 1. 9 H Q W X U H : H OBIOFO UROXY QDESIGNAY LERECAGING Biomimicry to Advance Environmental and Social Sustains Innovation iPrototypes Developed in Food wide Undergraduate Chemical Engineering Cooks & Summer 2020. Funded). Please see Interview attenture well.org /etholimical nor TBR SERS, The Holistic Foundry Undergraduate Engaged Learners (SUE In) er 2020 Renaissance Foundry Rese(Doch); \$1500 K, Funded).

3. The National Science Foundation HIRT (QJHQGHULQJ WKH 6 SENE By WD WH UDROHX JXLV D'V Total \$3 Mx 5 yrs. Av Starting date: July 1, 20 Passee PR at https://www.tntech.edu/news2/3/dasses/22 awardedmilliomsfgrantorworkn-foodenergy notwateresources ruracommunities) php

J-Areas of Research Focus:

Dr. Arce key area of reseatentiinsinimental Catalysiish applications who as the wade contamination via advanced oxidation method particular interestinisinate from waterorganic and biopharmaceutical interestinisinate from waterorganic and biopharmaceutical interestines. Directr of the newly function of PhQ PHQ WD OLAS CODANT OF THE SEE THAT OF THE SEE THAT OF THE ARCHIVET AND TH

Other areas of research interestances CTURED MATERWHILS Functional Perform (Health Care Engineering Applications: Hydrogels for clinical diagnostics, wound healing, tissue scaffolds and delivery MATEMATICASSISTEMEDICINE APPROACHES (MANDA) cations to Biophysical System (Microcirculatory and renal system pathiologites) osis, kidney failure, cancer treatment by hypert and chemother of the Construction of t

K-Research Philosophy al Mentoring

Thetwen-first century has accentuated the new realty:-Destinance of but items to Grand Challe-MyAes (USA 2017) and professional adaptability to the globalization of the economy across countries with high resources (Florida, R., 2012). This requires a completely different strategy for the development of a rechnology, Engineering, and Math (STEM) professional at the postsecondistricted by eskithent, had a postable, LPSDFWIXO WR VRFLHW\¶V FKDOOHQJHV DQG HQWUHSUHQHXULD Sochacka et al., 2016). To respond to this challenge, Dr. Arceo(Waltherstocke) https://doi.org/10.1001/1

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