



TEXAS A&M **INTERNATIONAL** UNIVERSITY  
COLLEGE OF ARTS AND SCIENCES

**FACULTY PUBLICATIONS,  
CREATIVE ACTIVITIES & GRANTS  
2019**



## MESSAGE FROM THE DEAN

---



Claudia San Miguel, Ph.D.  
Dean, College of Arts and Sciences

One of the most salient features of academic life is the pursuit of new knowledge as expressed through research, scholarly, and creative activities. In the College of Arts and Sciences (COAS), this new knowledge is typically manifested in various forms and artifacts such as peer-reviewed research articles, scholarly publications, academic books and monographs, creative pieces, art work, performance, patents, and even in highly competitive grants—both research and programmatic.

It gives me great pleasure to announce the scholarly accomplishments of COAS faculty for the calendar year 2019.

# COLLEGE OF ARTS AND SCIENCES FACULTY

## Department of Biology and Chemistry

---

Eversole, Cord  
Kidd, Michael R.  
Mendez, Mónica O.  
Quintana, Fernando G.

## Department of Fine and Performing Arts

---

Boseman, Mark T.  
Gechter, Friedrich C.  
Geiger-Ho, Martie J.  
Gorbunova, Tatiana  
Martínez Jr., Gilberto  
Shaw, Jesse

## Department of Humanities

---

Blackwell, Deborah L.  
Cantú, Irma L.  
Cardona-López, José  
Dean, John E.  
Haynes, Robert W.  
Hazelton, Andrew J.  
Kozaczka, Adam S.  
Martínez-Samos, José A.  
Norris, Lola  
Scaggs, Deborah M.  
Thompson, Jerry D.

## Department of Mathematics and Physics

---

Goonatilake, Hoonandara R.  
Hussain, Saqib  
Lin, Runchang  
Ni, Qingwen  
Wang, Hongwei

## **Department of Psychology & Communication**

---

Blackburn, Angeliqne M.

Cieślicka, Anna B.

García, Ediza

González, Ariadne A.

Heredia, Roberto R.

Kim, Ju Oak

Paz, Analee G.

Terrazas-Carrillo, Elizabeth C.

## **Department of Social Sciences**

---

Alaniz, Heather A.

Bernat, Frances P.

Byham, Jack C.

Dmello, Jared R.

Hadley Hilburn, Alison

Hilburn, Andrew M.

Houston, Kate A.

Norris, James A.

Updegrove, Alexander H.

Vergaray, Alfonso R.

Zschirnt, Simon

## **School of Engineering**

---

Bennett III, Marvin E.

Ganta, Deepak

Khasawneh, Mahmoud T.

Tobin, Kenneth J.

## BOOKS



Dr. Heather Alaniz



Dr. Anna B. Ciešlicka



Dr. Jerry D. Thompson

Wilson, S., & **Alaniz**, H. (Eds.). (2019). *A critical analysis of race, policy, and policing*. San Diego, CA: Cognella Publications.

**Bernat**, F.P., & Frailing, K. (Eds.). (2019). *Women and crime encyclopedia*, 3 volumes. Hoboken, NJ: John Wiley & Sons Inc.

Heredia, R.R., & **Ciešlicka**, A.B. (Eds.). (2019). *The bilingual lexical ambiguity resolution*. Cambridge, UK: Cambridge University Press.

**Haynes**, R.W. (2019). *Let the whales escape: 88 escapist poems*. Georgetown, KY: Finishing Line Press.

**Haynes**, R.W. (2019). *Laredo light*. Allahabad, India: Cyberwit.net.

**Heredia**, R.R., & Ciešlicka, A.B. (Eds.). (2019). *The bilingual lexical ambiguity resolution*. Cambridge, UK: Cambridge University Press.

**Scaggs**, D.M. (2019). *Kaleidoscope: Shaping language, shaping identity*. 2nd edition. Kendall Hunt. Dubuque, IA.

**Thompson**, J.D. (2019.) *Wrecked lives and lost souls: Joe Lynch Davis and the last of the Oklahoma outlaws*. Norman, OK: University of Oklahoma Press.

## JOURNAL ARTICLES



Dr. Marvin E. Bennett III



Dr. Mark Boseman



Dr. José J. Cardona-López

Tobin, K.J., & **Bennett**, M.E. (2019). Improving alpine summertime streamflow simulations by incorporation of evapotranspiration data, *Water*, 11 (1): 112.

Tobin, K.J., Crow, W.T., Dong, J., & **Bennett**, M.E. (2019). Validation of a new soil moisture product: Soil MERGE. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, PP (99): 1-15.

**Boseman**, M. (2019). The art of practicing. *Percussive Notes*, 57 (5): 26-27.

**Cardona-López**, J. (2019). *Los cachorros* (1967) by Mario Vargas Llosa as a modern *nouvelle* or short novel: Its discourse and the theme of identity. *Theory in Action*, 12 (4): 37-49.

Kras, K.R., **Dmello**, J.R., Meyer, K.S., Butterfield, A.E., & Rudes, D.S. (2019). Attitudes towards punishment, organizational commitment and cynicism: A multi-level analysis of staff responses in a juvenile justice agency. *Criminal justice and Behavior*, 46 (3): 475-491.

Bichler, G., Norris, A., **Dmello**, J.R., & Randle, J. (2019). Community terrorization: Evaluating the impact of civil gang injunctions on networked violence between the Bloods and the Crips. *Crime & Delinquency*, 65 (7): 875-915.



Dr. Cord Eversole



Dr. Deepak Ganta



Dr. Ediza García



Dr. Rohitha Goonatilake



Dr. Alison M. Hadley



Dr. Kate A. Houston



Dr. Saqib Hussain

**Eversole**, C.B., Powell, R.L., Lizarro, D., Moreno Aulo, F., Calderon Vaca, G., Aparicio, J., & Crocker, A.V. (2019). Introduction of a novel natural history collection: A model for global scientific collaboration and enhancement of biodiversity infrastructure with a focus on developing countries. *Biodiversity and Conservation*, 28 (7): 1921-1931.

**Eversole**, C.B., Koenig, A., & Eversole, B.A. (2019). *Heterodon platirhinos* (Eastern Hog Nose Snake) marine habitat use. *Herpetological Review*, 50 (1): 157-158.

Rosenberger, A.T., Dale, E.B., Bui, K.V., Gonzales, E.K., **Ganta**, D., Ke, L., & Rajagopal, S.R. (2019). Cross-polarization coupling of whispering-gallery modes due to the spin-orbit interaction of light. *Optics Letters*, 44 (17): 4163-4166.

Trevino, N., Montes, W., & **Ganta**, D. (2019). Disposable chronoamperometric sensor for detecting ciprofloxacin. *Engineering Research Express*, 1, 015031.

Terrazas-Carrillo, E., **García**, E., Briseño, J., & De la Cruz, I. (2019). Dating violence perspectives of Latino college students: Considerations for violence prevention programming. *Journal of College Student Retention: Theory, Research, and Practice*, 0 (0): 1-24.

Casey, J.E., Lin, R., Mireles, S.V., & **Goonatilake**, R. (2019). The effects of student success workshops on undergraduate Hispanic STEM students on the U.S.-Mexico border. *IAFOR Journal of Education*, 7 (1): 37-55.

**Hadley**, A.M. (2019). Continuity and change in pipestone sources at Great Bend Aspect and Wichita sites. *Plains Anthropologist*, 64 (249): 93-114.

**Haynes**, R.W. (2019). Replacing the romantic plantation: Horton Foote's dramatic engagement from *Gone with the Wind (The Musical)* to *Convicts*. *Skenè: Journal of Theatre and Drama Studies*, 5 (2): 81-100.

**Hilburn**, A., & Fry, M. (2019). Empirical environmental justice research in hydrocarbon extraction areas: examining current approaches outside the US using a Mexican case study. *Applied Geography*, 107: 63-71.

Reyes, H., & **Houston**, K.A. (2019). Perceptions of police brutality: Does audio matter? *Psychology, Public Policy and Law*, 25 (4): 315-322.

Vrij, A., Leal, S., Fisher, R., Mann, S., Jo, E., Shaboltas, A., Khaleeva, M., Granskaya, J., & **Houston**, K. (2019). Eliciting information and cues to deceit through sketching in interpreter-based interviews. *Applied Cognitive Psychology*, 33 (6): 1197-1211.

Al-Taweel, A., **Hussain**, S., Wang, X., & Jones, B. (2019). A Po - Po weak Galerkin finite element method for solving singularly perturbed reaction-diffusion problems. *Numerical Methods for Partial Differential Equations*, 36 (2): 213-227.

Malluwawadu, N., & **Hussain**, S. (2019). A weak Galerkin finite element method for second order elliptic problem with polynomial reduction. *Journal of Applied Analysis and Computation*, 9 (2): 655-670.



Dr. Mahmoud T.  
Khasawneh



Dr. Ju Oak Kim



Dr. Runchang Lin



Dr. Fernando G.  
Quintana



Dr. Elizabeth  
Terrazas-Carrillo



Dr. Kenneth J. Tobin



Dr. Alexander H.  
Updegrave

Abdulrahman A., Ibne Hossain, N.U., Jaradat, R., Abutabenjeh, S., Keating, C.B., **Khasawneh**, M.T., & Pinto, C.A. (2019). A systemic approach for disruption risk assessment in oil and gas supply chains. *International Journal of Critical Infrastructures*, 15 (3): 230-259.

**Kim**, J. (2019). The storyteller who crosses boundaries in Korean reality television: Transmedia storytelling in *New Journey to the West*. *International Journal of Communication*, 13: 2143-2160.

Casey, J.E., **Lin**, R., Mireles, S.V., & Goonatilake, R. (2019). The effects of student success workshops on undergraduate Hispanic STEM students on the U.S.-Mexico border. *IAFOR Journal of Education*, 7 (1): 37-55.

Cervantes, F.J., Faz, M., **Quintana**, F.G., & Wang, H. (2019). Measurements of liver size by ultrasound unveils large livers in overweight children. *Diabetes and Obesity International Journal*, 4 (4): 00021.

Wang, H., **Quintana**, F.G., Cervantes, F.J., & Faz, M. (2019). Analysis of the relationship among kidney volume, obesity, and blood pressure in Mexican-American children. *Journal of Pediatric Nephrology*, 7 (3): 1-7.

**Terrazas-Carrillo**, E., García, E., Briseño, J., & De la Cruz, I. (2019). Dating violence perspectives of Latino college students: Considerations for violence prevention programming. *Journal of College Student Retention: Theory, Research, and Practice*, 0 (0): 1-24.

**Terrazas-Carrillo**, E., & Sabina, C. (2019). Dating violence attitudes among Latino college students: An examination of gender, machismo, marianismo and acculturation. *Violence and Victims*, 34 (1): 194-210.

**Tobin**, K.J., & Bennett, M.E. (2019). Improving alpine summertime streamflow simulations by incorporation of evapotranspiration data. *Water*, 11 (1): 112.

**Tobin**, K.J., Crow, W.T., Dong, J., & Bennett, M.E. (2019). Validation of a new soil moisture product: Soil MERGE. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, PP (99): 1-15.

**Updegrave**, A.H., & Vaughn, M.S. (2019). Evaluating intellectual disability after the *Moore v. Texas* redux. *The Journal of the American Academy of Psychiatry and the Law*, 47 (4): 486-492.

**Vergaray**, A. (2019). Thinking with Spinoza about uncertainty today: Preliminary reflections on uncertainty in Spinoza's political and social thought. *Circolo: Revista di filosofia e culture*, 8: 119-128.

Cervantes, F.J., Faz, M., Quintana, F.G., & **Wang**, H. (2019). Measurements of liver size by ultrasound unveils large livers in overweight children. *Diabetes and Obesity International Journal*, 4 (4): 00021.

**Wang**, H., Quintana, F.G., Cervantes, F.J., & Faz, M. (2019). Analysis of the relationship among kidney volume, obesity, and blood pressure in Mexican-American children. *Journal of Pediatric Nephrology*, 7 (3): 1-7.

## CHAPTERS/ESSAYS IN BOOKS



Dr. Angélique M.  
Blackburn



Dr. Ariadne A.  
González



Dr. Roberto R.  
Heredia

**Blackburn, A.M.** (2019). Neuroimaging studies of multilingualism. In John W. Schwieter (Ed.), *The Handbook of the Neuroscience of Multilingualism* (pp. 141-169). In Blackwell Handbooks in Linguistics Series, Wiley-Blackwell.

**Blackburn, A.M.** (2019). Factors affecting cortical representation. In John W. Schwieter (Ed.), *The Handbook of the Neuroscience of Multilingualism* (pp. 280-306). In Blackwell Handbooks in Linguistics Series, Wiley-Blackwell.

Heredia, R.R., & **Cieślicka, A.B.** (2019). The cross-modal lexical priming paradigm and bilingual exhaustive access. In Roberto R. Heredia & Anna B. Cieślicka (Eds.), *Bilingual Lexical Ambiguity Resolution* (pp. 3-16). Cambridge, UK: Cambridge University Press.

García, O., **Cieślicka, A.B.**, & Heredia, R.R. (2019). Online ambiguity resolution in bilingual lexical access. In Roberto R. Heredia & Anna B. Cieślicka (Eds.), *Bilingual Lexical Ambiguity Resolution* (pp. 184-228). Cambridge, UK: Cambridge University Press.

**Cieślicka, A.B.**, & Heredia, R.R. (2019). ERP correlates of figurative language processing. In Magdalena Wrembel, Agnieszka Kielkiewicz-Janowiak, & Piotr Gašiorowski (Eds.), *Approaches to the Study of Sound Structure and Speech: Interdisciplinary Work in Honour of Katarzyna Dziubalska-Kolaczyk* (pp. 244-257). Routledge Publishing.

**Eversole, C.B.**, & Brenk, A.L. (2019). Mycotoxins: Form and function. In Scott E. Henke and Alan Fedynich (Eds.), *Aflatoxins in Wildlife: Exposure, Problems, Detection and Control Methods*. Hauppauge, NY: Nova Scientific Publishing Company.

**Eversole, C.B.**, & Brenk, A.L. (2019). Effect of aflatoxin in wild mammals. In Scott E. Henke and Alan Fedynich (Eds.), *Aflatoxins in Wildlife: Exposure, Problems, Detection and Control Methods*. Hauppauge, NY: Nova Scientific Publishing Company.

**González, A.A.** (2019). Mujeres trabajadoras: Examining the role of Mexican immigrant and transnational wives. In Lynn O'Brien Hallstein and Rebecca Bromwich (Eds.), *Critical Perspectives on Wives: Roles, Representations, Identities, and Work*. Bradford, Ontario, Canada: Demeter Press.

**Heredia, R.R.**, & Cieślicka, A.B. (2019). The cross-modal lexical priming paradigm and bilingual exhaustive access. In Roberto R. Heredia & Anna B. Cieślicka (Eds.), *Bilingual Lexical Ambiguity Resolution*. Cambridge, UK: Cambridge University Press.

García, O., Cieślicka, A.B., & **Heredia, R.R.** (2019). Online ambiguity resolution in bilingual lexical access. In Roberto R. Heredia and Anna B. Cieślicka (Eds.), *Bilingual Lexical Ambiguity Resolution* (pp. 184-228). Cambridge, UK: Cambridge University Press.

Cieślicka, A.B., & **Heredia, R.R.** (2019). ERP correlates of figurative language processing. In Magdalena Wrembel, Agnieszka Kielkiewicz-Janowiak, and Piotr Gašiorowski (Eds.), *Approaches to the Study of Sound Structure and Speech: Interdisciplinary Work in Honour of Katarzyna Dziubalska-Kolaczyk* (pp. 244-257). Routledge Publishing.





Dr. Andrew M. Hilburn

**Hilburn, A., & Zawisza, T.** (2019). River of difference: Using participatory risk mapping to assess perceived risks in Laredo Texas, U.S.A. and Nuevo Laredo, Tamaulipas, Mexico. In Bandana Kar and David M. Cochran (Eds.), *Risk Communication and Community Resilience*. New York, NY: Routledge.



Dr. Adam S. Kozaczka

Lane, S., & **Houston, K.** (2019). Eyewitness memory. In Neil Brewer and Amy Bradfield Douglass (Eds.), *Psychological Science and the Law* (pp. 104-129). New York, NY: Guildford Press.

**Kozaczka, A.** (2019). Symbolism and empire: Stevenson, Scott, and toy soldiers. In Sarah Dunnigan (Ed.), *The Land of Story Books: Scottish Children's Literature in the Nineteenth Century* (pp. 174-191). University of Edinburgh: Association for Scottish Literary Studies.



Dr. José A.  
Martínez-Samos

**Martínez-Samos, J.A.** (2019). Del examen de la identidad a la imposibilidad del amor en *La Quincena Soviética (1988)*, de Vicente Molina Foix. *Vicente Molina Foix: el creyente de todas las religiones* (pp. 115-131). Lyon: GRIMH-Passages XX-XXI.

## EDITORSHIPS



Dr. Frances P. Bernat

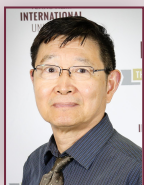
**Bernat, F.P.** Editor. *Women & Criminal Justice*, vol. 29 (issues 1, 2, 3, 4 - 5, 6), 2019.



Dr. John E. Dean

**Dean, J.E.** Associate Editor. *Review of International American Studies*, vol. 12 (issues 1 & 2), 2019.

## CONFERENCE PROCEEDINGS



Dr. Qingwen Ni

**Ni, Q., Holland, D., & Wang, X.** (2019). Assessment of biglycan correlated with the *in situ* toughness of bone. 6<sup>th</sup> Seoul International Conference on Applied Science and Engineering (SICASE 2019). May 21-23, Seoul, Korea. ISBN: 978-986-89536-5-9; ISSN: 2308-1775.

## ENCYCLOPEDIA/REFERENCE ENTRIES



Dr. Deborah L. Blackwell

**Blackwell, D.L.** (2019). Wonder Woman: Other Media. In Richard Hall (Ed.), *The American Superhero: Encyclopedia of Caped Crusaders in History*. Greenwood Publishing Group.

**Blackwell, D.L.** (2019). Gail Simone/Women in Refrigerators. In Richard Hall (Ed.), *The American Superhero: Encyclopedia of Caped Crusaders in History*. Greenwood Publishing Group.



Dr. Jared R. Dmello

**Dmello, J., & Perliger, A.** (2019). International terrorism. In Lauren R. Shapiro and Marie-Helen Maras (Eds.), *Encyclopedia of Security and Emergency Management*. Cham, Switzerland: Springer.

**Norris, J.** (2019). Mexican American Legal Defense and Education Fund (1968 - ). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Groups, Parties, and Organizations that Shaped America: An Encyclopedia and Document Collection*. Santa Barbara, CA: ABC-CLIO.



Dr. James Norris

**Norris, J.** (2019). Unidos US (Formerly, National Counsel of LaRaza) (1968 - ). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Parties, Interest Groups, and Organizations that Shaped America: An Encyclopedia and Document Collection*. Santa Barbara, CA: ABC-CLIO, LLC.



Dr. Alfonso Vergaray

**Vergaray, A.** (2019). Anonymous (2004 - present). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Groups, Parties, and Organizations that Shaped America: An Encyclopedia and Document Collection*, (pp. 250-153). Santa Barbara, CA: ABC-CLIO.

**Zschirnt, S.** (2019). Bourbon Democrats (1876-1904). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Groups, Parties, and Organizations that Shaped America: An Encyclopedia and Document Collection*. Santa Barbara, CA: ABC-CLIO.



Dr. Simon Zschirnt

**Zschirnt, S.** (2019). Constitution party (1991 - ). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Groups, Parties, and Organizations that Shaped America: An Encyclopedia and Document Collection*. Santa Barbara, CA: ABC-CLIO.

**Zschirnt, S.** (2019). Copperheads (1860-1868). In Scott H. Ainsworth and Brian M. Harward (Eds.), *Political Groups, Parties, and Organizations that Shaped America: An Encyclopedia and Document Collection*. Santa Barbara, CA: ABC-CLIO.

## BOOK REVIEWS



Dr. Irma Cantú

**Cantú, I.V., & Margarita, M.** (2019). Book Review of: *Vike, un animal dentro de mí* (2018). Camino Real, Estudios de las Hispanidades Norteamericanas. Universidad de Alcalá de Henares-Instituto Franklin, 11 (14): 179-181.



Dr. Andrew Hazelton



Dr. Lola O. Norris

**Dean, J.E.** (2019). Book Review of: *Understanding Larry McMurtry*, by Steven Frye (University of South Carolina Press). *Western American Literature*, 54 (1): 88-90.

**Hazelton, A.** (2019). Book Review of, *Undocumented Lives: The Untold Story of Mexican Migration*, by Ana Raquel Minian (University of Nebraska Press). *Labor: Studies in Working-Class History of the Americas* 16 (2): 160-162.

**Norris, L.O.** (2019). Book Review of *Esteban: The African Slave Who Explored America*, by Dennis Herrick (University of New Mexico Press). *Southwestern Historical Quarterly* CXXIII: 116-117.

## CREATIVE ACTIVITIES



Dr. Friedrich Gechter



Dr. Tatiana Gorbunova



Dr. Martie Geiger-Ho



Dr. Gilberto Martinez



Ms. Analee Paz

**Friedrich, G.** (2019). Solo and Duo Piano Recital with Dr. Tatiana Gorbunova, piano. Chopin Ballade No. 1, Op. 23, Debussy, Petite Suite for Four Hands. Guest Artist Recital, Lone Star College-Montgomery.

**Geiger-Ho, M.** (2019). Raking the Dry Garden: Surface Traced Ceramic Forms. The Institute of Ceramic Studies Gallery. The Shigaraki Ceramic Cultural Park, Shigaraki, Japan.

**Geiger-Ho, M.** (2019). Raking the Dry Garden II: Surface Traced Ceramic Forms. Ottawa School of Art, Ottawa, Canada.

**Geiger-Ho, M.** (2019). Spatial Elaborations – Ceramics and Paintings. The Cultural Center of Cape Cod, South Yarmouth, Massachusetts.

**Gorbunova, T.** (2019). Guest Artist Piano Recital. Del Mar Community College, Corpus Christi, TX.

**Gorbunova, T.** (2019). Guest Artist Piano Recital. Lone Star Community College-Montgomery, Conroe, TX.

**Gorbunova, T.** (2019). Susquehanna University Concert Series Guest Artist. Stretansky Concert Hall, Selinsgrove, PA.

**Martínez, G.** (2019). Directed the The Mousetrap- TAMIU Mainstage Theatre. Laredo, TX.

**Paz, A.** (2019). Golondrina Food Park Branding. *LogoLounge* 11. Scope: International.

**Paz, A.** (2019). ERA Branding. *LogoLounge* 11. Scope: International.

**Paz, A.** (2019). Mercadito Branding. *Graphis Design Annual*. Scope: International.

**Shaw, J.** (2019). Paper Trail Art Fair. BRICK at Blue Star, San Antonio, TX.

**Shaw, J.** (2019). Print Riot III print fair. Brick and Mortar Gallery, Easton, PA.



Mr. Jesse Shaw

**Shaw, J.** (2019). Print Austin Print Expo. Blue Genie Big Top, Austin, TX.

**Shaw, J.** (2019). American Epic. HACC. Harrisburg, PA.

## EXTERNAL GRANTS – PRINCIPAL INVESTIGATOR



Dr. Jack C. Byham

**Byham, J.** (2019). Volunteer income tax assistance program. \$204,000. IRS/ Department of the Treasury. 2018-2020.

**Eversole, C.B.** (2019). Effect of invasive and non-native vegetation on community assemblage and diversity of small mammals and herpetofauna. \$62,400. Welder Wildlife Foundation.

**González, A.A.** (2019). Research Development Grant. \$2,500. Organization for Research on Women and Communication.



Dr. Michael R. Kidd

**Kidd, M.** (2019). Title V: ADVancing the Instruction of Science Educators (ADVISE) Program at Texas A&M International University (TAMIU). \$1,937,380. Department of Education.

**Mendez, M.** (2019). Travel & Visiting Scientist. E. Kika De La Garza Science Fellowship. \$8,500. Department of Agriculture.



Dr. Mónica O. Mendez

**Tobin, K.** (2019). TAMIU STEM High-End Computational Resource. \$307,795.00. Department of Defense Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institutions Equipment/Instrumentation. 2019 to 2020.