John Galiotos PhD

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Office: HCC-WHI, 3rd Floor, Chemistry Faculty Section WhatsApp, Viber, https://www.linkedin.com/in/johngaliotos/ Academic and Industrial Setting Teaching and Program Development Experience

2020-present Southern University-Shreveport, Louisiana

Associate Professor of Chemistry (tenured)

- General Chemistry I (online-Moodle)
- Research (Hydrogen and Advance Flywheel Energy Systems)

2020-present Houston Community College-Houston, Texas

Adjunct Professor of Chemistry

- General Chemistry I & II
- General Chemistry I & II (online-CANVAS, WebEx, Kaltura)
- Introductory Chemistry (Theory and Lab)

2019 Suffolk County Community College-Brentwood NY, USA

Adjunct Associate Professor of General Chemistry (evenings)

- Introductory Chemistry
- 1999-2015 University of Houston Downtown-Houston Texas, USA

Adjunct Professor of Chemistry (evenings)

- College General Chemistry I & II Labs, Physical Chemistry I&II Labs, Inorganic Chemistry Labs.
- Made several contributions in improving the Department of Chemistry lab facilities and experiments.
- Assisted in the American Chemical Society Department approval process.

2013-2015 Houston Community College-Houston, Texas, USA

Adjunct Professor of Chemistry (weekends)

• General Chemistry I & II

2000-2012 Houston Community College - Houston Texas, USA

Professor of Chemistry | Science and Engineering Technology Division Chair

- Taught Biotechnology, Chemistry, Physics, Engineering Technology (Chemical, Mechanical and Electromechanical, Power, Petroleum, and Process), and Solar Technology.
- Developed and taught the following courses online
 - Introduction to Process Technology (BlackBoard)
 - Safety Health and Environment (BlackBoard)
 - Introduction to Petroleum Industry (BlackBoard)
 - Process Technology I Equipment (BlackBoard)
- Co-authored: HCC Chemical Science Lab Safety procedures, Introduction to Chemical Technology, Basic and Applied Analytical Chemistry, Introduction to Process Technology, Safety Heath and the Environment, Faculty Externship manual, and Student Internship and Coop Education manual.

1998-2000 ITT Technical Institute– Houston Texas, USA

Chemistry Professor, Education Supervisor of Chemical Technology

- Taught Applied Analytical Chemistry and Applied Instrumental Analysis I&II.
- Conducted train the trainer workshops and conferences for Chemical Technology instructors to study new classroom procedures, new instructional materials, and other aids for effective lab and classroom instruction.
- 1997 Illinois Institute of Art Chicago Illinois, USA

Professor of Chemistry

- Taught General Chemistry I & II.
- Developed the Science curriculum for the Institute.
- Developed and organized and lab facilities.
- Served in several committees including hiring and curriculum development.
- **1997** Harold Washington College- Chicago Illinois, USA

Adjunct Professor of Physics and Earth Science

• Taught Environmental Science I&II.

1997 Columbia College- Chicago Illinois USA

Adjunct Professor of Chemistry and Environmental Science

- Taught Environmental and Physical Science I&II (E&PS I&II) and General Chemistry.
- Organized the Physical Science Labs.
- Co-Author the Experimental Manual for E&PS I&II.

Programs and Curriculum Development at Houston Community College

- Biotechnology (2001)
- Chemical Laboratory Technology (2000)
- Instrumentation and Controls Engineering Technology (2005)
- Forensic Science Technology (Chemistry and Biotechnology component) (2004)
- Fuel Cell Technology (2005)
- Process Technology (2000)
- Polymer Technology (2004)
- Municipal and Industrial Water Treatment Operations (2004)
- Chemical Engineering Technology (2006)
- Petroleum Engineering Technology (2007)
- Solar Energy Technology (PV) (2010)
- Solar Energy Technology (TH) (2010)
- Wind Energy Technology (2010)
- Power Engineering Technology (2010)
- Biofuels Technology (2010)

Programs and Curriculum Development at Suffolk County Community College

- Electromechanical Engineering Technology (2018)
- Energy Engineering Technology (2018)
- Electrical Technology-noncredit (2019)

On-Line Course Offerings

- Chemical Plant Operations at the following institution:
 - o Education to Go Online Career Training
 - o The E-Learning Center
 - The University of Central Florida
 - o George Mason University Continuing Education

- o The Center for Business Development at Excelsior College
- Oil Refinery Operations at the following Institutions:

• Western Michigan University Department of Continuing Education The University of West Florida Department of Continuing Education

Industry and Academic Training

2021-present	Calumet Lubricants, Shreveport, Louisiana; Basic Operations and Operation Safety.
2016-2017	ADNOC, Abu Dhabi, UAE; Basic Refinery Operations.
2015	Charles Darwin University, Darwin Australia; Refrigeration
2014	Taif University, Taif, Kingdom of Saudi Arabia; High Voltage & Renewable Energy
2013	Charles Darwin University, Darwin Australia; Process Control
2013	Taif University, Taif, Kingdom of Saudi Arabia; Power Generation and Power Distribution
2012	ADNOC Technical Institute; Process and Chemical Engineering Technology Training Programs-ADNOC Abu Dhabi
2012	SINOPEC "Health, Safety & Environment-A Project Management and Administrative Approach for the Oil and Gas Industry"-Houston Community College-NE
2012	SINOPEC "Role and Vision of CFO in Major Oil and Gas Companies"-University of Houston
2012	SINOPEC "Responsibilities and Philosophies of CFOs in major US Oil and Gas Companies"-University of Houston

<u>John K. Galiotos PhD</u> <u>Grant Activity</u>

Grant Name	Funding Source	Location	Funding	Position	Year	Outcomes
			Request (\$)			
The Gulf Coast Technology Articulation Partnership	National Science Foundation/ATE	Houston Community College McNeese State University Lee College	299,999	PI	2003-2008	Transfer pathways (AAS to BSET) for Process Technology students.
Business Plan Proposal and Executive Summary: "The Houston Community College Energy Institute"	Houston Community College State Bond Award	Houston Community College	20,000,000	PI	2004-2008	Construction of a 60,000-sf building to house Houston Community College Energy Institute. Development of 11 Energy related programs, increase student enrollments and student diversity, meet energy industry workforce needs, organized special events, impacting over 3,000 students annually.
Developing Troubleshooting Skills for Students in Energy Programs	National Science Foundation/ATE	Houston Community College Lone Star College Bismarck State College Northern Oklahoma College	899,994	Co-PI/PI	2011-2014	Development of 27 complete (instructor and student manuals) industry approved modules on Operations Troubleshooting (used as course material for PTAC 2446 Process Troubleshooting). Established the Troubleshooting Annual Student

						Competition
						impacting 30
						students' (10
						colleges) careers in
						the chemical
						process industries.
Expanding Community	National Science	Austin	69,625	Co-PI	2011-2012	Study of changes in
Colleges Leadership to	Foundation/ATE	Community				the energy
Meet Rapid Changes in		College				education, as it
Energy Education		Austin, Texas				relates to relevant
						industry workforce
		4 College				needs. Reporting
		Consortia				of best practices in
						meeting industry
						needs towards
						increasing student
						enrollments,
						graduation and
						placement rates,
						and student
Contovtual Laboratory	National Science	Athons	1 200 000		2002 2005	Development of
Contextual Laboratory	National Science	Athens	1,200,000	CO-PI	2002-2005	Development of
Curriculum for	Foundation/ATE	Cellege				has a day not sentence
		College				and improving
rechnology		Houston				
		Community				curricula to
		College				training for
		conege				Biotechnology
		Delta College				Chemical
		Delta college				Technology and
						Chemical
						Engineering
						Technology
						students
Development of	Perkins	Southwest	5.000	Co-PI	2006	Development of a
Mechatronics and		Junior College	0,000			Mechatronics (AAS)
Robotics Programs in		Uvalde, Texas				and Robotics (One
the State of Texas		,				Year Certificate)
		10 College				programs to be
		Consortia				used by all
						community
						colleges in the
						State of Texas.
Texas Renewable	Texas State	Texas State	300,000	Co-PI	2008-2011	Established fuel
Energy Education	Comptroller-State	Technical				cells, solar, wind
Consortium (TREEC) I	Energy	College				and energy
· · ·	_,					management

	Conservation	Lamar Institute				mobile education
	Once	or reciniology				nrograms
		Houston				Increase student
		Community				enrolments and
		College				awareness.
		concBc				Conducted
		Austin				demonstrations at
		Community				2YC and high
		College				schools at several
		C				State of Texas ISDs.
Stationary Fuel Cell	Texas State	Texas State	100,000	Co-PI	2006-2008	Developed a Fuel
Curriculum	Comptroller-Texas	Technical				Cell Technology
	State Energy	College				course material for
	Conservation					AAS program for all
	Office.	Houston				2YC in the State of
		Community				Texas.
		College				Meet related
						industries
						technician
						workforce needs.
Texas Renewable	Texas State	Texas State	273,000	Co-PI	2010-2011	Increase and
Energy Education	Comptroller-State	Technical				awareness,
Consortium (TREEC) II	Energy	College				organized
	Office	Houston				workshops-forums-
	Office	Community				continued
		College				education
		conege				opportunities
						conducted
						demonstrations
						associated with
						Renewable Energy
						at selected State of
						Texas events, and
						2YC and high
						schools.
Subsea Center of	RESTORE Act in	University of	\$2,000,000	Co-PI	2014-2019	Established a
Excellence in Safety	Texas	Houston				Center of
and Training						Excellence
		Rice University				regarding Offshore
						Safety; create
		Lone Star				programs and
		College				certificates;
						increase student
		NASA				enrollments and
		1				graduates in Oil &

VIII

		Houston Community College				Gas E&P Offshore Operations.
ARRA Training for Pipe Drafting	Houston- Galveston Area Council	Houston Community College	500,000	PI	2009-2010	Improve CAD program deliverables and dissemination. Enhance program and courses learning outcomes. Purchased equipment. Impacting student enrollment increase and graduation placement rates to 97%.
ARRA Training for Green Jobs	Houston- Galveston Area Council	Houston Community College	1,169,947	PI	2009-2011	Development of fast-track training programs-stackable credentials, AAS and certificates for HVAC, Solar, Wind, Energy Management. Incorporate target marketing to increase awareness and student enrollments, and purchasing of specialized equipment. Created career pathways for students in Green Jobs
South-Central Solar Training Consortium	Department of Energy	Houston Community College & Ontility	3,916,058	PI	2009-2014	Purchased startup equipment to train solar instructors and electricians at 11 selected colleges in six states. Developed training material for solar programs.

						Offer NABCEPT
						Certification Exam
						(passing rate
						100%).
Green Energy	Texas Comptroller	Houston	338.300	PI	2010-2012	Purchasing of
Equipment Grant	of Public	Community				specialized
-40.0	Accounts-State	College				equipment for
	Fnergy	conege				HVAC Electrical
	Conservation					Dlumbing Solar-
	Office					Thormal Solar DV
	Office					Mind Energy
						Tochnology
						Technology,
						Utilities, and Power
						Engineering
						Technology new
						programs.
						100% NABCEPT
						Certification
						passing rate.
Green House Lab and	Texas State	Houston	460,480	PI	2010-2012	Purchasing of
Camp Energy	Comptroller-State	Community				equipment to train
	Energy	College				students in green
	Conservation					building
	Office					construction,
						energy auditing,
						HVAC, electrical,
						building energy
						inspection, solar
						panel installations,
						and insulations.
						Improved student
						placement 98%.
Purchasing of	The State of Texas	Lone Star	332.497	PI	2015-2016	Purchasing of
Equipment to Train	Job Building	College	,			equipment to
Students in Industrial	Fund/JET Program	8-				training students in
Machinery Mechanics						manufacturing and
						Oil & Gas
						Exploration and
						Production
						operations
	The Long Star	Long Star	97.022	ы	2015 2016	Durchasa a MSCC
IVI.A.J.J. J.P.E.U.			07,033		2012-2010	and a LCMS for
	Conege	College				and a LUIVIS TOP
						advance studies in
	Award for STEIVI					chemistry, biology,
	Related Applied					biochemistry, and
	Research					biofuels.
						Improve student
						hands-on skills and

						competencies,
						increase the
						number of
						competent
						transferring
						students to Life
						and Natural
						Science,
						Engineering, and
						Allied Health
						professions.
						Research (URE)
						summer
						collaborations with
						UH, UT, SHSU.
Long Island Future	State University of	Suffolk County	200,000	Co-PI	2018-2019	Established
Energy Revolution	New York	Community				awareness
		College				activities across
						Long Island about
		Nassau County				Energy Efficiency,
		Community				Energy
		College				Management,
						Sustainable
						Transportation
						best practices and
						related careers.

• Over \$600,000 in Carl Perkins Grants awarded for new program start-ups and equipment purchasing to support the needs of the Energy Institute.

Grant Supervisory Capabilities

- As Principal Investigator for my NSF/ATE Articulation project award, I supervised 4 PT Co-PIs.
- As Principal Investigator for my NSF/ATE Troubleshooting award, I supervised 1 FT Director and 3 PT Co-PIs.
- As Principal Investigator for my DOE Southwest Solar Trainers Consortium award, I supervised 1 FT Director and 1 FT Administrative Assistant.
- As Principal Investigator for my State of Texas SECO and JET awards, I supervised 1 FT Administrative Assistant.
- As Texas Skills Development awards, I supervised 1 FT Director/Administrative Assistant.

John K. Galiotos PhD Selected Publications

- "The Education in Process Technology" Economikos Taxydromos (a political, economic, and business oriented magazine in Greece), January 12, 2002.
- "Biotechnology as a Contributor in Economic Development" Greek Newspaper AXIA, December 21, 2002.
- "Preparation and Properties of Trifluoromethylated Derivatives of Group IV (14) & VA (15) Elements" by John K. Galiotos, Ph.D. Thesis, University of Illinois at Chicago UMI 4209, OR# 9426624, Ann Arbor, Michigan 1994.
- "Chemistry Laboratory Experiments; Laboratory Manual for Non-Science Students at Columbia College Chicago" by J. K. Galiotos and G. Warschewsky; Columbia College Chicago 1997.
- "Preparation and Properties of Trifluoromethylated Aryl Derivatives of Group IVA (14) Elements; High Yield Synthesis of Trifluoromethylbenzene" by J. K. Galiotos and J. A. Morrison* (Organometallics Vol.19, Issue 13, 2000; pg. 2603-2607).
- Environmental Technology and Environmental Biotechnology Education at Houston Community College; A Working Model Between New programs and Industry Advisory Committees by John K. Galiotos Proceedings of the International Conference for the Protection and Restoration of the Environment 2002, Volume III, pg. 1883-1887, Skiathos, Greece).
- "Houston Community College System-Northeast College and McNeese State University; Challenges Facing Small Regional Co-op Education Programs" by John K. Galiotos and Nikos Kiritsis. Proceedings of the 2003 American Society for Engineering Technology Education Conference for Industry Education Collaboration, Session ETD 542, pg. 1-5.

- "Houston Community College System-Northeast College and University of Houston Downtown; Working Together with Industry to provide Two Year and Four Year Degrees for Gulf Coast Industry" by John K. Galiotos and Gilbert J Groendyke. Proceedings of the 2003 American Society for Engineering Technology Education Conference for Industry Education Collaboration, Session ETD 541, pg 15-18.
- "Nitric Oxide: Regulation and Clinical Relevance" by Chandra K. Mittal, John K. Galiotos, and Richa Mittal; Trends in Clinical Biochemistry and Laboratory Medicine, 2003, pg 577-580.
- "Integrity Management of Deep Water Floating Producing Facilities: Towards Better and Safer Workforce Personnel" by John K. Galiotos and Alberto Morandi, Proceedings of OMAE2005 paper # 67572; 24th International Conference on Offshore, Mechanics, and Arctic Engineering (OMAE 2005), June 12-17, 2005, Halkidiki, Greece; page 1-7.
- "The Bio-Advantage and Texas Leads the Way" by John K. Galiotos; Innovation Texas, summer 2005, page 8.
- "Innovations in Applied Energy Industry-Education Collaborations: Strategic Contributions of Industry Advisory Committees to Energy Related Education and Training" WSEAS Transactions on Environment and Development, Issue 7, Volume 2, July 2006 pg 980-984, ISSN: 1790-5079.
- "AVO, Pore Pressure Reduce Deepwater Drilling Risk" by Brian Wm. Schulte, GeoPsi Consulting and HCC-NE Energy Institute Dr. John Galiotos, Lourdes Goodson, BP and HCC-NE Energy Institute, and Efrain Melendez, Explore Seismic Processing Offshore Magazine; Vol 69; Issue 6; June 2009; PennWell.
- "Innovations in Articulation Partnerships: The Gulf Coast Technology Articulation Partnership" by John Galiotos Houston Community College-NE

Energy Institute; Proceedings of the American Society for Engineering Education-Gulf-Southwest Annual Conference 2010.

- "Technologies for Unconventional Shale Plays" by Brian Schulte, GeoPsi; Vicente Parra, Alfredo Guilamo, Gilbert Garcia, and John "Yianni" K. Galiotos Houston Community College-NE Energy Institute; Proceedings of the ASEE Gulf-Southwest Annual Conference 2010.
- "Examination of Al, As, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Sb, Se, V, and Zn in sediments collected around the downtown Houston, Texas area, using inductively coupled plasma-optical emission spectroscopy". Gurnoor Benipal, Austin Harris, Chaithanya Srirajayatsayai, Andrew Tate, Vladimiros Topalidis, Zahaan Eswani, Muneeza Qureshi, Carey J. Hardaway, John Galiotos, Christos Douvris; Microchemical Journal, Vol 120, 2017, Pages 255-262.
- "Investigation of the metal content of sediments around the historically polluted Potomac River basin in Washington D.C., United States by inductively coupled plasma-optical emission spectroscopy (ICP-OES)", AustinHarris, Spero J.Xanthos, John K. Galiotos, ChrisDouvris; Microchemical Journal, Vol 142, 2018, Pages 140-143.
- Drilling Cuttings and Cores Permeability measurements system using Transient Draw Down Analysis and Reservoir Multi-Pore Hydrocarbon Flow System definition.

Konstandinos Zamfes MSc, P.Geol/Eng. Geoscientist, Prospectors Services International Corp. Texas, USA; Dr. John K. Galiotos, Dean Workforce Development & Associate Professor of Chemistry, Southern University at Shreveport (submitted to JPT).