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## Geoffrey Christoffersen Klein

Vice President

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)

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### Education

#### **Postdoctoral Fellowship, National High Magnetic Field Laboratory, Tallahassee, FL**

Research Topic: FT-ICR MS Analysis of Asphaltenes

Dr. Ryan Rodgers and Dr. Alan Marshall, Advisors

#### **Ph.D. Analytical Chemistry, Florida State University, Tallahassee, FL**

Dissertation Title: Petroleomics: Applications in the Fingerprinting of the Acidic and Basic Crude Oil Components Detected by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry

Dr. Alan Marshall, Chair

#### **B.S. Chemistry, College of William and Mary, Williamsburg, VA**

ACS Certified Degree

Research Topic: Molecular Imprinting Polymers

Dr. Robert Orwoll, Advisor

### Higher Education Accreditation Experience

#### **Vice President, Southern Association of Colleges and Schools Commission on Colleges, SACSCOC (December 2021 – Present)**

- Support portfolio of 74 accredited institutions.
- Selects and supports peer review committees and activities, including selection of chair, committee members, ongoing consultation and guidance during committee meetings and report development.
- Advises member institutions and coordinates on-site visits to assist in improving educational programs and documenting compliance with accreditation standards throughout substantive change and reaffirmation processes.
- Advises and informs the SACSCOC Board of Trustees and its committees on matters relative to an institution.
- Provide programming and training to support member institutions' compliance with accreditation standards and improvement of educational programs.
- Monitors ongoing accreditation activities of assigned institutions.
- Assists in identifying good educational practices and experimental activities and disseminates information to member institutions.

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**SACSCOC Accreditation Liaison, Christopher Newport University (June 2013 – November 2021)**

- Led CNU's decennial reaffirmation efforts, including an audit of compliance; development of Compliance Certification Report (University self-study), Focus Report, and Response Report; coordination of the on-site evaluation visit; and orchestrated selection and development of Christopher Newport University's Quality Enhancement Plan (QEP)—Research LENS. Resulted in reaffirmation with no monitoring in 2017.
- Successfully responded to concerns following an initial submission of CNU's 5<sup>th</sup>-year accreditation interim report, including the submission of the Quality Enhancement Plan Impact Report. Efforts led to continuation of accreditation with no monitoring in 2014.
- Presented accreditation-related topics at state and regional conferences—see *Conference Presentations/Workshops* section for more information.
- Responsible for Christopher Newport's Substantive Change policy. Worked collaboratively with university stakeholders to obtain approval for new Master of Financial Analysis Degree program.

**Accreditation Consultant (2018 – 2019)**

- *Halifax Community College (2019) and Norfolk State University (2018)*. Served as an external reviewer for development of Institutions' Compliance Certification Reports. Provided detailed, written feedback to enhance case for compliance in the content and organization of the narrative, selection of evidence, and application of SACSCOC policies and guidelines. Both institutions were reaffirmed with no required monitoring.
- *Grambling State University (2018)*. Assisted in orienting Compliance Certification writing teams to the *2018 SACSCOC Principles of Accreditation*. Provided overview to the writing process and met with individual teams to address requirements for each standard. Institution was reaffirmed with no monitoring.

**SACSCOC Board of Trustees Member (2020 – November 2021)**

- Executive Council (Virginia Representative), January 2021 – November 2021
- Committee of Compliance and Reports, January 2020 – December 2021

**SACSCOC Peer Reviewer (2016 – 2021)**

- Served on decennial on-site and substantive change committees. Involved making holistic and complex judgements based on analysis of institutional information.
- Completed Committee Chair Orientation (August 2021). Two-day training session to prepare experienced peer-evaluators to serve as committee chairs. The training session addressed the operational and strategic aspects of managing and leading evaluation committees.

**Virginia Regional Accreditation Symposium, Executive Board Member (2017 – 2021)**

- Co-Chair, 2020-2021. Worked with board members to develop and coordinate a series of forums focused on hot accreditation topics.
- Past Chair, 2019
- Chair, 2018. Led efforts to plan, organize, and smoothly implement a day-long program for the Virginia Regional Accreditation Symposium. Symposium took place in Charlottesville, VA on November 6, 2018. Over 70 VA accreditation professionals attended symposium.
- Vice Chair, 2017

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<b>Administrative Experience</b>
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**Vice Provost for Research, Graduate Studies, and Assessment  
Associate Professor  
Christopher Newport University (May 2014 – November 2021)**

*Leadership Responsibilities:*

- Serve as a member of the senior academic leadership team to provide effective leadership of the University.
- Work collaboratively with senior administrators and faculty on strategic academic planning and coordination to provide a common vision for research, assessment and graduate studies at Christopher Newport.
- Conduct provost-level interviews of candidates for faculty positions when Provost is unavailable.
- Lead CNU's Graduate Programs (serving in same role as a graduate dean), by supervising four program directors and interfacing with the college deans for the sake of scheduling, staffing, and recruitment to maintain and enhance excellent graduate programs.
- Provide vision and oversight for all assessment practices at Christopher Newport, including the assessment of academic programs, administrative and student support units and liberal learning core curriculum.
- Serve as CNU's SACSCOC liaison and lead efforts to maintain institutional accreditation.
- Serve as Institutional Official (IO), a position that is ultimately responsible for the institution's animal care and use program and the protection of human subjects in research.
- Served as the Facility Security Officer (FSO) for Christopher Newport's facility security clearance. Currently hold an active SECRET DoD security clearance.
- Responsible for overall organization, administration and fiscal management of the following units: Sponsored Programs, Office of Undergraduate Research and Creative Activity, Animal Care and Use Program, including the animal care facility, Office of Graduate Studies, Office of Teacher Preparation and Office of Assessment.
  - Annual Budget: \$2.2M
  - Over 50 full- and part-time faculty and staff, including 7 direct reports

*Key Achievements:*

- Graduate Studies. Refined application process for admission to graduate programs, including full implementation of an online application. Significantly updated policies and procedures to support timely completion of graduate degrees. Maintained robust enrollment profile in four programs. Successfully obtained state and regional approval for the new Master of Financial Analysis Program.
- Accreditation. See *Higher Education Accreditation Experience* section.
- Research. Oversaw a 48% increase in external financial support for faculty scholarship. Developed faculty idea for a college summer student research program, expanded reach and scope, worked to fund it, and implemented the CNU Summer Scholars Program.

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Program has increased the number of student-faculty research teams from 26 to 60 over the first six years. Led efforts to open an Office of Undergraduate Research and Creative Activity. Developed and implemented security program to meet requirements of the NISPOM to maintain facility security clearance.

- In collaboration with the Office of Assessment, oversaw the development and implementation of an assessment plan for all administrative, academic, and student support units. Process has led to improvement of unit learning outcomes and performance indicators based on data-driven interventions. Implemented new program review process to align assessment activities and academic program strategic initiatives in an effort to assure quality academic programs.

### **Interim Associate Provost**

#### **Associate Professor**

**Christopher Newport University (June 2013 – May 2014)**

#### *Leadership Responsibilities:*

- Graduate Studies, Research, and Accreditation.
- Served as Coordinator of the Liberal Learning Core Curriculum.

#### *Key Achievements:*

- Accreditation. See *Higher Education Accreditation Experience* section.
- Research. Established a new incentive program for faculty pursuing external sponsors for their scholarship activities. Opened the Christopher Newport University animal care facility—to include procurement and supervision of management services.
- Liberal Learning Core Curriculum. Worked with a team of faculty and staff to finalize and implement a new assessment plan for measuring student-learning associated with CNU's Liberal Learning Core Curriculum. Worked collaboratively with department chairs to streamline departmental course offerings.
- Other. Led the development of a Collaborative Academic Agreement between CNU and University of Electronic Science and Technology of China (UESTC).

### **Faculty Appointments**

Associate Professor of Chemistry, Christopher Newport University (2012 – 2021)

Honors Faculty, Christopher Newport University (2010 – 2021)

Assistant Professor of Chemistry, Christopher Newport University (2006-2012)

### **Professional Education**

Harvard Institute for Management and Leadership in Higher Education (MLE), 2019

Project Kaleidoscope, Summer Leadership Institute, Early STEM Career Faculty, 2010

### **Professional Affiliations**

Member, American Chemical Society, since 2002

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Local Section, Hampton Roads, since 2006  
Division of Energy and Fuels, since 2002  
Professional Relations, since 2010  
Gay and Transgender Chemists and Allies Subdivision, since 2010  
Member, Council on Undergraduate Research, 2006 - 2021  
Member, National Classification Management Society, 2018 - 2020  
Member, Virginia Academic of Science, 2009-2012  
Member, American Society for Mass Spectrometry, 2001-2007

### Distinctions

Inaugural Faculty Award for Excellence in Teaching, Christopher Newport University, 2012  
(awarded annually to one faculty member by the University Provost – selected by faculty committee)  
Nominee, Alumni Society Award for Excellence in Teaching and Mentoring, Christopher Newport University, 2010, 2011, & 2012 (awarded annually to one member of the faculty – nominated by chair and/or dean and selected by panel of alumni)

### Grants (Over \$2.68 million awarded)

*Analysis of Endocrine Disrupting Chemicals by Liquid Chromatography*

PI, **\$1,000**, 2013

Source: Hamilton: University Product Grant Program

*Purchase of a Luzchem Photoreactor for the Laboratory Determination of the Rate Constant for the Degradation of 17 $\beta$ -Estradiol*

PI, **\$3,000**, 2012

Source: Christopher Newport University Faculty Development Program

*Petroleomics: Elucidation of Chemical Composition and Functionality of Compounds Resistant to Asphaltene Inhibitors*

PI, **\$65,000**, 2011-2016

Source: American Chemical Society Petroleum Research Foundation (ACS-PRF)

*Investigation of Environmental Factors affecting the Photodegradation of 17 $\beta$ -Estradiol*

PI, **\$4,000**, 2010

Source: Christopher Newport University Faculty Development Program

*GK-12 Fellows: Linking Urban Water Quality with Science Education in the Chesapeake Watershed*

Co-PI, **\$2,606,000**, 2009 – 2015

Source: National Science Foundation (NSF)

*Elucidation of Chemical Composition and Chemical Structure/Functionality of Compounds Resistant to Asphaltene Inhibitors*

PI, **\$2,000**, 2009

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Source: Christopher Newport University Faculty Incentive Grant Program

*Development of a Standard Method for the Separation and Analysis of Petroporphyrins*

PI, \$3,000, 2007

Source: Christopher Newport University Faculty Development Program

*Development of a Chemistry Outreach program to Increase Awareness in Chemistry Careers*

PI, \$2,025, 2007

Source: Christopher Newport University Dean's Office Grant

### Journal Publications

(\* indicates undergraduate student co-author, † indicates graduate co-author)

**Klein, G.C.** and Carney, J.M. (2014) A Comprehensive Approach to the Development of Communication and Critical Thinking: Bookend Courses for Junior and Senior Chemistry Majors. *Journal of Chemical Education*, 91(10), 1649-1654.

Mosher, J.J., **Klein, G.C.**, Marshall, A.G. and Findlay, R.H. (2010) Influence of Parental Bedrock on Dissolved Natural Organic Matter Structure in Stream Water. *Organic Geochemistry*, 41, 1177-1188.

Smith, D.F., **Klein, G.C.**, Yen, A.T., Squicciarini, M.P., Rodgers, R. P. and Marshall, A.G. (2008) Crude Oil Polar Chemical Composition Derived from FT-ICR Mass Spectrometry Accounts for Asphaltene Inhibitor Specificity. *Energy and Fuels*, 22(5), 3112-3117.

Altieri, K.E., Seitzinger, S.P., Carlton, A.G., Turpin, B.J., **Klein, G.C.** and Marshall, A.G. (2008) Oligomers Formed Through In-cloud Methylglyoxal Reactions: Chemical Composition, Properties, and Mechanisms Investigated by Ultra-high Resolution FT-ICR Mass Spectrometry. *Atmospheric Environment*, 42(7), 1476-1490.

Stanford, L.A., Kim, S., **Klein, G.C.**, Smith, D.F., Rodgers, R.P. and Marshall, A.G. (2007) Identification of Water-Soluble Heavy Crude Oil Organic-Acids, Bases, and Neutrals by Electrospray Ionization and Field Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. *Environmental Science and Technology*, 41, 2696-2702.

Mullins, O.C., Rodgers, R.P., Weinheber, P, **Klein, G.C.**, Venkatramanan, L., Andrews, B. and Marshall, A.G. (2006) Oil Reservoir Characterization via Crude Oil analysis by Downhole Fluid Analysis in Oil Wells using Visible – NIR Spectroscopy and by Laboratory Analysis using ESI-FT-ICR-Mass Spectroscopy. *Energy & Fuels*, 20, 2448-2456.

**Klein, G.C.**, Kim, S., Rodgers, R.P., Yen, A. and Marshall, A.G. (2006) Mass Spectral Analysis of Asphaltenes II. Detailed Compositional Comparison of Asphaltenes Deposit to its Crude Oil Counterpart for two Geographically Different Crude Oils by ESI FT-ICR MS. *Energy & Fuels*, 20, 1973-1979.

- Klein, G.C.**, Kim, S, Yen, A., Asomaning, S., Rodgers, R.P. and Marshall, A.G. (2006) Mass Spectral Analysis of Asphaltenes I. Compositional Differences between Pressure-Drop and Solvent-Drop Asphaltenes Determined by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. *Energy & Fuels*, 20, 1965-1972.
- Klein, G.C.**, Rodgers, R.P. and Marshall, A.G. (2006) Identification of Hydrotreatment-Resistant Heteroatomic Species in a Crude Oil Distillation Cut by Electrospray Ionization FT-ICR Mass Spectrometry. *Fuel*, 85(14-15), 2071-2080.
- F, Jinmei, **Klein, G.C.**, Smith, D.F., Kim, S., Rodgers, R.P., Hendrickson, C.L. and Marshall, A.G. (2006) Comprehensive Compositional Analysis of Hydrotreated and Untreated Nitrogen – Concentrated Fractions from Syncrude Oil by Electron Ionization Ultrahigh-Resolution FT – ICR Mass Spectrometry. *Energy and Fuels*, 20, 1235-1241.
- Klein, G.C.**, Angstrom, A.\*, Rodgers, R.P. and Marshall, A.G. (2006) Use of Saturates/Aromatics/Resins/Asphaltene (SARA) Fractionation to Determine Matrix Effects in Crude Oil Analysis by Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. *Energy and Fuels*, 20, 668-672.
- Kujawinski, E.B., Del Vecchio, R., Blough, N.V., **Klein, G.C.** and Marshall, A.G. (2004) Probing molecular-level transformations of dissolved organic matter: insights on photochemical degradation and protozoan modification of DOM from electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. *Marine Chemistry*, 92, 23-37.

#### Other Publications

(\* indicates undergraduate student co-author, † indicates graduate co-author)

- Rizor, M.J.\* and **Klein, G.C.** (2016) Investigation into the efficacy of the IP-143 method for the separation of asphaltene from bulk crude oils. *Am. Chem. Soc., Div. Energy Fuels Preprints*, 61 (1), 603-604.
- Strickland, W.\*, Horten, M.\*, Turkekul, R.\*, and **Klein, G.C.** (2014) Comparison of Hildebrand solubility parameter and bulk properties of three different types of crude oils. *Am. Chem. Soc., Div. Energy Fuels Preprints*, 59 (1), 607-608.
- Hanson, W.†, Flores, R. A., **Klein, G.C.**, Meyer, M., Webb, L. S. and Whiting, G. J. (2011) A Collaborative Rich Internet Application in Education: The GK-12 Watershed Interdisciplinary Science Education (WISE) System. San Diego, CA: ESRI International User Conference.
- Maxwell, J.C.† and **Klein, G.C.** (2011) Determination of a HPLC Method for the Quantitation of Estradiol and its Seven Degradation Products. *Virginia Journal of Science*, 62 (1-2), 50-51.

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- Webb, L.S., **Klein, G.C.**, Flores, R.A., Meyer, M. D. and Whiting, G. J. (2010) Connecting Graduate Research to Undergraduate and Secondary Science Education. *Virginia Journal of Science*, 61 (1-2), 40-41.
- Clift, S.H.\*, Watson, J.N.\*, Swale, D.\*, Houck, M.\*, Webb, L.S. and **Klein, G.C.** (2009) Method Development for the Determination of Amino Acids in Sexually Mature *Odocoileus virginianus* by Gas Chromatography Mass Spectrometry. *Virginia Journal of Science*, 60 (1-2), 77-78.
- Anderson, K.J.\*, Saller, R.G.\*, Beasley, M.A.\* and **Klein, G.C.** (2009) Method Development for the Qualitative Determination of Petroporphyrins of Two Geographically Distinct Crude Oils by UV-Vis Spectroscopy. *Virginia Journal of Science*, 60 (1-2), 79.
- Squicciarini M.P., Yen, A.T., Smith, D.F., **Klein, G.C.**, Rodgers, R.P. and Marshall, A.G. (2007) Characterization of the Chemical Properties of Crude Oils to Explain Observed Asphaltene Inhibitor Specificity. *Preprints of Symposia - SPE International Symposium on Oilfield Chemistry*, Houston, Texas.
- Marshall, A.G., Kim, D., **Klein, G.C.**, Stanford, L.A., Purcell, J.M., Schaub, T.M., Smith, D.F., Hendrickson, C.L. and Rodgers, R.P. (2006) Compositional characterization of petroleum by ultrahigh-resolution Fourier transform ion cyclotron resonance mass spectrometry with multiple ionization sources. *Amer. Chem. Soc. Petroleum Chemistry Division Preprints*, 51 (2), 564-566.
- Fu, J., **Klein, G.C.**, Rodgers, P.P., Hendrickson, C.L. and Marshall, A.G. (2005) Elemental composition analysis of processed and unprocessed nitrogen-concentrated distillation fractions by ultrahigh resolution FT-ICR mass spectrometry. *Amer. Chem. Soc. Petroleum Chemistry Division Preprints*, 50(4), 428-429.
- Rodgers, R.P., **Klein, G.C.**, Stanford, L.A., Kim, S. and Marshall, A.G. (2004) Characterization of heavy, biodegraded crude oils by high resolution ESI FT-ICR mass spectrometry. *Amer. Chem. Soc. Fuel Chemistry Division Preprints*, 49(2), 483-484.
- Rodgers, R.P., Kim, S., **Klein, G.C.**, Wu, Z., Schaub, T.M. and Marshall, A.G. (2004) Recent advances in ultrahigh-resolution FT-ICR mass spectral analysis of petroleum-derived materials. *Amer. Chem. Soc. Petroleum Chemistry Division Preprints*, 49(1), 16-17.
- Rodgers, R.P., **Klein, G.C.**, Nowlan, V. and Marshall, A.G. (2003) Petroleomics: ESI FT-ICR MS identification of hydrotreatment - resistant neutral and acidic nitrogen species in crude oil. *Amer. Chem. Soc. Fuel Chemistry Division Preprints*, 48(2), 574-575.
- Rodgers, R.P., **Klein, G.C.**, Wu, Z. and Marshall, A.G. (2003) Environmental applications of ESI FT-ICR mass spectrometry: The identification of polar N, S and O containing PAH species in crude oil and coal extracts. *Amer. Chem. Soc. Fuel Chemistry Division Preprints*, 48(2), 758-759.



**Klein, G.C.**, Rodgers, R.P., Teixeira, M.A.G., Teixeira, A.M.R.F. and Marshall, A.G. (2003) *Petroleomics: Electrospray Ionization FT-ICR Mass Analysis of NSO Compounds for Correlation between Total Acid Number, Corrosivity, and Elemental Composition. Amer. Chem. Soc. Fuel Chemistry Division Preprints*, 48(1), 14-15.

Rodgers, R.P., **Klein, G.C.**, Nowlan, V. and Marshall, A.G. (2003) *Petroleomics: ESI FT-ICR MS identification of hydrotreatment – resistant neutral and acidic nitrogen species in crude oil. Amer. Chem. Soc. Fuel Chemistry Division Preprints*, 48(2), 574-575.

### Select Conference Presentations/Workshops

(\* indicates undergraduate student co-author, † indicates graduate co-author, underline - presenting author(s))

**Klein, G.C** and **Smith-Sharpe, M** (2019, December) *6-Hr. Workshop. Organizing for a Successful Compliance Certification: Shooting for the Moon*. Southern Association of Colleges and Schools Commission on Colleges Annual Meeting, Houston, TX.

**Klein, G.C**, **Chiarello, C** and **Birtley, L**. (2019, December) *Establishing A Statewide Accreditation Knowledge Network (VRAS)*. Southern Association of Colleges and Schools Commission on Colleges Annual Meeting, Houston, TX.

**Klein, G.C** and **Smith-Sharpe, M** (2018, December) *6-Hr. Workshop. Organizing for a Successful Compliance Certification: Roadmap to Success*. Southern Association of Colleges and Schools Commission on Colleges Annual Meeting, New Orleans, LA.

**Siegal, H.J.\*** and **Klein, G.C.** (2018, March) *Determination of the most effective asphaltene inhibitor at affecting the flocculation onset point in a medium crude oil*. Amer. Chem. Soc. 255<sup>st</sup> National Meeting, New Orleans, LA.

**Klein, G.C** and **Smith-Sharpe, M** (2017, December) *6-Hr. Workshop. Compliance Certification Bootcamp: Concrete Strategies for Success*. Southern Association of Colleges and Schools Commission on Colleges Annual Meeting, Dallas, TX.

**Klein, G.C.** (2017, November) *Institutional Effectiveness: Successful Strategies for Compliance*. Virginia Regional Accreditation Symposium, Richmond, VA.

**Klein, G.C.** (2016, November) *Fifth-Year Interim Report and QEP Impact Report*. Virginia Regional Accreditation Symposium, Richmond, VA.

**Rizor, M.J.\*** and **Klein, G.C.** (2016, March) *Investigation into the efficacy of the IP-143 method for the separation of asphaltenes from bulk crude oils*. Amer. Chem. Soc. 251<sup>st</sup> National Meeting, San Diego CA.

**Klein, G.C.** (2015, November) *Faculty Evaluations/Administrative Staff Evaluations*. Virginia Regional Accreditation Symposium, Richmond, VA.

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Strickland, W.N.\*, Horten, M.R., Turkekul, R., and **Klein, G.C.** (2014, March) *Comparison of Hildebrand solubility parameter and bulk properties of three different types of crude oils*. Amer. Chem. Soc. 247<sup>th</sup> National Meeting, Dallas TX.

**Klein, G.C.** and Carney, J. (2014, March) *Development of communication and critical thinking skills in undergraduate chemistry majors*. Amer. Chem. Soc. 247<sup>th</sup> National Meeting, Dallas TX.

Grim, M.†, Keyes, K.†, Wallace, J.\*, and **Klein, G.C.** (2014, March) *Investigation of 17- $\beta$  estradiol degradation rates via direct UV and indirect photo-fenton photolysis*. Amer. Chem. Soc. 247<sup>th</sup> National Meeting, Dallas TX.

Horten, M.R.\*, Strickland, W.N.\*, and **Klein, G.C.** (2013, March) *Compositional Comparison of Asphaltenes Collected via Two Extraction Techniques*. Pittcon Conference and Expo 2013, Philadelphia, PA.

Strickland, W.N.\*, Horten, M.R.\*, Turkekul, R.\* and **Klein G.C.** (2013, March) *Unraveling the Petroleome by Mass Spectrometry*. Pittcon Conference and Expo 2013, Philadelphia, PA.

Grim, M.\* and **Klein, G.C.** (2013, March) *Determination of 17 $\beta$ -Estradiol Aqueous Solubility by High Performance Liquid Chromatography*. Pittcon Conference and Expo 2013, Philadelphia, PA.

Schumacher, K.N.\*, Maxwell, J.C.† and **Klein, G.C.** (2013, March) *HPLC Method Development for the Separation and Detection of 17 $\beta$ -Estradiol and Its Seven Degradation Products*. Pittcon Conference and Expo 2013, Philadelphia, PA.

Beasley, R.L.\*, Horten, M.R.\*, and **Klein, G.C.** (2011, November) *Petroleomics: Analysis of Crude Oil by Mass Spectrometry*. 2011 Eastern Analytical Symposium, Somerset, NJ. – Undergraduate Research Award.

Peacor, B.\*, Beasley, R.L.\*, Horten, M.R.\*, and **Klein, G.C.** (2011, October) *Petroleomics: Analysis of three types of crude oils by attenuated total reflectance Fourier transform infrared spectroscopy (ATR FT-IR), electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry (ESI FT-ICR MS) and principal component analysis*. 2011 Southeastern Regional American Chemical Society Meeting, Richmond, Va.

**Klein, G.C.** (2011, May) *The Crude Truth about Petroleomics*. The Science Café sponsored by NASA Langley Research Center, Sigma Xi, and the American Chemical Society, Hampton, VA. - Invited Seminar

Maxwell, J.C.† and **Klein, G.C.** (2011, May) *Determination of an HPLC Method for the Quantitation of Estradiol and its Seven Degradation Products*. 89<sup>th</sup> Annual Meeting of Virginia Academy of Science, Richmond, VA.

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Peacor, B.\*, Bromberg-Martin, B.E.\* and **Klein, G.C.** (2011, March) *Petroleomics: Analysis of Two Types of Crude Oils by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIR) and Principal Component Analysis*. Pittcon Conference and Expo 2011, Atlanta, GA.

**Randolph, N.K.E.\***, Webb, L.S. and **Klein, G.C.** (2011, March) *Analysis of Essential Amino Acid Composition of Virginia Game by Gas Chromatography Mass Spectrometry*. Pittcon Conference and Expo 2011, Atlanta, GA.

**Klein, G.C.** (2010, November) *Petroleomics: Fingerprinting the Polar Constituents of Crude Oil*. Old Dominion University, Norfolk, VA. – Invited Seminar

**Klein, G.C.**, **Webb, L.S.**, Flores, R.A., Meyer, M. D. and Whiting, G. J. (2010, September) *Connecting Graduate Research to Undergraduate and Secondary Science Education at CNU*. 10<sup>th</sup> Annual Faculty Conference on Teaching and Scholarship, Newport News, VA.

**Klein G.C.** (2009, August) *Cultivating a Summer Research Experience for CNU Undergraduates in the Chemical Sciences – is it Possible?* 9<sup>th</sup> Annual Faculty Conference on Teaching and Scholarship, Newport News, VA.

**Clift, S.H.\***, **Watson, J.N.\***, Webb, L.S. and **Klein, G.C.** (2009, August) *Detection and Quantitation of Amino Acids in Sexually Mature *Odocoileus virginianus* by Gas Chromatography Mass Spectrometry*. Amer. Chem. Soc. 238<sup>th</sup> National Meeting, Washington DC.

**Clift, S.H.\***, **Watson, J.N.\***, Swale, D.\*, Houck, M.\*, Webb, L.S. and **Klein, G.C.** (2009, May) *Method Development for the Determination of Amino Acids in Sexually Mature *Odocoileus virginianus* by Gas Chromatography Mass Spectrometry*. 87<sup>th</sup> Annual Meeting of Virginia Academy of Science, Richmond, VA.

**Anderson, K.J.\*** and **Klein, G.C.** (2008, August) *Analysis of petroporphyrins in heavy crude oils by UV-VIS Spectrophotometry*. Amer. Chem. Soc. 236<sup>th</sup> National Meeting, Philadelphia, PA.

**Larter, S.**, Bennett, B., Huang H., Adams J., Jiang C., Koksalan T., Liao Y., Rodgers R.P., **Klein G.C.** and Marshall A.G. (2007, September) *The Impact of In-reservoir Biodegradation Processes on Non GC – Amenable Fractions of Crude Oil and Advanced Thermal Recovery Processes For Heavy Oil*. 23<sup>rd</sup> International Meeting on Organic Geochemistry, Torquay, Devon, United Kingdom.

**Smith, D.F.**, **Klein, G.C.**, Yen, A.T., Squicciarini, M.P., Rodgers, R.P. and Marshall, A.G. (2007, June) *Asphaltene Inhibitor Specificity in Relation to Detailed Polar Chemical Composition Derived from FT-ICR Mass Spectrometry*. The 8<sup>th</sup> International Conference on Petroleum Phase Behavior and Fouling, PAU, France.

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- Smith, D.F., Klein, G.C.,** Yen, A.T., Squicciarini, M.P., Rogers, R.P. and Marshall, A.G. (2007, June) *Asphaltene Inhibitor Performance in Relation to Detailed Polar Chemical Composition Derived from FT-ICR Mass Spectrometry*. 55<sup>th</sup> Amer. Soc. For Mass Spectrom. Ann. Conf. on Mass Spectrometry & Allied Topics, Indianapolis, IA.
- Mosher, J.J., Klein, G.C.,** Marshall, A.G. and Findlay, R.H. (2007, May) *Linkages between dissolved organic matter quality and microbial community structure in forested streams in two geological substrates*. American Society for Microbiology, Toronto, CA.
- Squicciarini M.P.,** Yen, A.T., Smith, D.F., **Klein, G.C.,** Rodgers, R.P. and Marshall, A.G. (2007, February) *Characterization of the Chemical Properties of Crude Oils to Explain Observed Asphaltene Inhibitor Specificity*. SPE International Symposium on Oilfield Chemistry, Houston, TX.
- Klein, G.C.,** Rodgers, R.P., Bennett, B., Larter, S.R. and Marshall, A.G. (2006, May) *A Comprehensive Comparison of the Polar NSO Compounds in a Suite of Biodegraded Oils by ESI FT-ICR MS*. 54<sup>th</sup> Amer. Soc. for Mass Spectrom. Ann. Conf. on Mass Spectrometry & Allied Topics, Seattle, WA.
- Klein, G.C.,** Rodgers, R.P., Yen, A., Asomaning, S. and Marshall, A.G. (2005, June) *Comparison of Elemental Composition in an Asphaltene Sample Obtained by Pressure Changes and Heptane Insolubility Detected by ESI FT-ICR MS*. 53<sup>rd</sup> Amer. Soc. for Mass Spectrom. Ann. Conf. on Mass Spectrometry & Allied Topics, San Antonio, TX.
- Klein, G.C.,** Rodgers, R. P., Yen, A. and Marshall, A.G. (2005, April) *Redefining Asphaltenes: Compositional Differences in Pressure Drop and Solvent Drop Asphaltenes Determined by ESI FT-ICR MS*. 5<sup>th</sup> North American FT-ICR MS Conference, Key West, FL.
- Klein, G.C.,** Rodgers, R.P., Yen, A. and Marshall, A.G. (2004, June) *ESI FT-ICR MS Compositional Comparison of the Polar Species Identified in Whole Crude Oil and Related Deposit Asphaltenes*. 52<sup>nd</sup> Amer. Soc. for Mass Spectrom. Ann. Conf. on Mass Spectrometry & Allied Topics, Nashville, TN.
- Klein, G.C.,** Rodgers, R.P., Nowlan, V. and Marshall, A.G. (2003, June) *Petroleomics: ESI FT-ICR MS Determination of Hydrotreatment-Resistant Neutral and Acidic Nitrogen Species in Crude Oil*. 51<sup>st</sup> Amer. Soc. For Mass Spectrom. Ann. Conf. on Mass Spectrometry & Allied Topics, Montreal, CA.
- Klein, G.C.,** Rodgers, R.P., Teixeira, M.A.G. and Marshall, A.G. (2003, March) *Petroleomics: Electrospray ionization FT-ICR mass analysis of NSO compounds for correlation between total acid number, corrosivity, and elemental composition*. Amer. Chem. Soc. 225<sup>th</sup> National Meeting, New Orleans, LA.
- Klein, G.C.,** Rodgers, R.P. and Marshall, A.G. (2002, June) *Correlation of Total Acid Number and Corrosivity with Elemental Composition of Crude Oils Detected by Electrospray Ionization FT-ICR MS*. 50<sup>th</sup> Amer. Soc. for Mass Spectrom. Ann. Conf. on Mass

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Spectrometry & Allied Topics, Orlando, FL.

**Select Community and Professional Service**

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)

Board of Trustees Member, 2020-2021

Executive Council, January 2021 – November 2021

Committee of Compliance and Reports, January 2020 – December 2020

Peer Evaluator, to include substantive change and decennial reaffirmation visits.

Virginia Regional Accreditation Symposium Board

Past Chair, 2019

Chair, 2018

Led efforts to plan, organize, and smoothly implement a day-long program for the Virginia Regional Accreditation Symposium that took place in Charlottesville, VA on November 6, 2018.

Vice Chair, 2017

American Chemical Society, Hampton Roads Section

Alternate Councilor, 2011 – 2016

Chair, 2011 and 2012

Chair-elect, 2010

Secretary, 2009

Member-at-Large, 2008

Reviewer (Academic Journals):

*Energy and Fuels*

*Journal of Chemical Education*

*Rapid Communications in Mass Spectrometry*

*Separation Science and Technology*

Reviewer (Grants):

*American Chemical Society Petroleum Research Foundation*

*National Science Foundation*

**Select Department, College, and University Service**

American Chemical Society Certified Degree Committee, Chair

Undergraduate Curriculum Committee

University Committee on Student Discipline

Chemistry Major Assessment Committee, Chair

General Chemistry Coordinator

Dean Search Committee, College of Natural and Behavioral Sciences

Faculty Search Committees (13)

Molecular Biology and Chemistry Seminar Committee

Chemistry Club Coordinator

**Theater Activities**

Professional Musical Theatre Actor (full resume available upon request)

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Mr. George Banks, *Mary Poppins the Musical* starring Broadway's Tiffany Haas and  
Andrea Rivette, Virginia Musical Theatre (VMT)  
Bishop of Basingstoke, *Jekyll and Hyde the Musical* starring tony-nominated actor  
Constantine Maroulis, VMT  
Calvin/MC/Joey Biltmore/Crapshooter, *Guys & Dolls*, Virginia State Company  
Cabaret Singer, *The Impossible Dream a Musical Cabaret*, Zeiders American Dream  
Theatre  
Professor Bhaer, *Little Women the Musical*, VMT  
Edward Rutledge, *1776*, ShowStoppers Productions  
Enoch Snow, *Carousel*, VMT  
GI/Ensemble, *Miss Saigon*, VMT  
Play Selection Committee, Williamsburg Players