

TOM OTIENO

College of Science
Roark 105
Eastern Kentucky University
521 Lancaster Avenue
Richmond, KY 40475

ADMINISTRATIVE EXPERIENCE

- **Interim Dean**, College of Science, Eastern Kentucky University, Richmond. 7/2016-present

Serves as the administrative and academic leader of the college. Responsible for administrative oversight, resource allocation and management, student academic services, faculty affairs, program and course development and evaluation, research, and liaison with central administration and the university community, and external relationships.

- **Associate Dean**, College of Arts and Sciences, Eastern Kentucky University, Richmond. 7/2005-6/2016

Responsible for various College activities related to the administration of the College including promotion and tenure, strategic planning, policies and procedures, and faculty development. Assisted with faculty appointments, chairperson appointments, academic program reviews, and other administrative or personnel special projects and activities as assigned by the Dean. Coordinated the College junior faculty mentoring program. Promoted and supported the research mission of the College, including assisting faculty members in their pursuit of external funding.

- **Project Director**, ECU Governor's Minority Student College Preparation Program (GMS CPP), Richmond. 8/2015 – 6/2016

The project was funded by Kentucky's Council on Postsecondary Education and provided academic enrichment opportunities to middle school students from diverse backgrounds in Madison County. The Saturday STEM Program consisted of learning experiences designed to introduce the students to STEM-H fields. The Wednesday after-school enhancement program exposed students to academic enrichment activities, good study habits, time management, and assistance with homework.

- **Administrative Intern**, Office of Senior Vice President for Academic Affairs & Provost, Eastern Kentucky University, Richmond, 1/2015-4/2015.

Shadowed the Provost to both internal and external meetings. Held candid group discussions with Provost and five other interns on leadership and the complexity, sensitivity, variety and large number of areas of responsibility that falls under the purview of the Provost.

- **Interim Department Chair**, Department of Physics & Astronomy, Eastern Kentucky University, Richmond. 5/2008-6/2008 and 1/2009-6/2009

Responsible for administration of the department including budget development and management, faculty hiring, faculty and staff supervision and evaluation,

course scheduling, oversight of student advising/orientation sessions, student issues, and advocacy and interactions with other units on behalf of the department.

- **Assistant Dean**, College of Arts and Sciences, Eastern Kentucky University, Richmond. 1/2004-6/2005

Responsible for various College activities related to the administration of the College, faculty and staff personnel and policy issues, and scholarly activities. Represented the College at university-level student recruitment activities and served as editor of the College newsletter.

- **Project Director/Principal Investigator**, Eastern Kentucky University's GK-12 project (ISMAM), 1/2003- 6/2006.

The project was funded by a \$1.5 million grant from the National Science Foundation and involved working with selected middle schools to improve the teaching of science and mathematics. Oversaw the overall implementation of the project. Specifically: set up and managed the project office, prepared and oversaw the budget, recruited and supervised personnel (51 total), organized and chaired grant-wide planning meetings, participated in training workshops, served as a faculty participant/mentor, interacted with internal and external project evaluators, interacted with NSF (including attending annual meetings of NSF GK-12 project teams [2004, 2005, 2006], submission of proposals for supplemental awards [2003,2004, 2005], and preparation and submission of annual and final report), collected and submitted program monitoring data to Quantum Research Corporation (QRC), promoted the project to internal and external constituencies (including presenting at conferences).

- **Administrative Intern**, Office of the Dean, College of Arts and Sciences Eastern Kentucky University, Richmond, 8/2002-5/2003.

Participated in college-level recruitment efforts on and off-campus, oversaw the development of the first college brochure, edited and produced the college newsletter, accompanied the college Dean and Associate Dean to meetings.

- **Coordinator of Graduate Program**, Department of Chemistry, Eastern Kentucky University, Richmond 9/1997-8/2002

Reviewed and processed prospective graduate student applications, oversaw the graduate program curriculum including scheduling of courses, revision of existing courses and introduction of new ones, streamlined advising for both enrolled and prospective graduate students, stepped up recruitment and retention efforts for the M.S. program, developed and maintained the Department's graduate studies website, chaired the graduate committee, made laboratory-teaching assignments to faculty, part time instructors and graduate assistants. Played the leading role in the chemistry graduate program review mandated by the Kentucky Council on Postsecondary Education.

ACADEMIC EXPERIENCE

- **Professor**, Eastern Kentucky University, Richmond. 2003-present
- **Associate Professor**, Eastern Kentucky University, Richmond. 1998-2003 (**Tenured**,

2000)

- **Visiting Research Faculty**, University of Kentucky, Lexington (Summers 1999, 2000, 2001 and 2002)
- **Assistant Professor**, Eastern Kentucky University, Richmond. 1995-1998
- **Postdoctoral Research Associate**, Southwest Texas State University, San Marcos. 1993-1995
- **Research and Teaching Assistant**, University of British Columbia, Vancouver. 1986-1993

EDUCATION

- **Ph.D.**, University of British Columbia, Vancouver, 1993
- **M.Sc.**, University of British Columbia, Vancouver, 1989
- **B.Sc.** (1st Class Hons.), University of Nairobi, Nairobi, 1986

ACADEMIC LEADERSHIP AND PLANNING TRAINING

- **President's Leadership in Action Academy (PLAA)**. A professional development program for aspiring leaders involving regularly scheduled meetings with leadership professional development speakers (leadership styles and concepts), leadership in action professional development speakers (university functions and challenges facing the university), an administrative internship, and a group project. *Eastern Kentucky University*, Richmond, Kentucky, August 2014 to May 2015.
- **Promoting better teaching and learning across the whole campus through faculty evaluations and faculty development**. Workshop for academic administrators presented by L. Dee Fink, *Eastern Kentucky University*, Richmond, Kentucky, June 16-17, 2014.
- **Using quantitative productivity tools to guide academic decision-making**: A workshop for deans, associate/assistant deans and budget managers. *Council of Colleges of Arts and Sciences*, Cincinnati, Ohio, March 25-26, 2011
- **Deans and development**. Post-conference workshop, *Council of Colleges of Arts & Sciences*. Portland, Oregon, November 15, 2008.
- **Stepping up to the deanship**: A hands-on skills assessment and CV workshop. Post-conference workshop. *Council of Colleges of Arts and Sciences*, Chicago, Illinois, November 10, 2007
- **Management development program (Certificate)**. Harvard University Graduate School of Education, Cambridge, Massachusetts, June 16-28, 2007
- **Deans' seminar on new structures: Planning, financing and building new facilities for the arts and sciences**. *Council of Colleges of Arts and Sciences*, Omaha, Nebraska, March 17-18, 2005

AWARDS

- **Distinguished College/University Scientist Award (2002)**; Kentucky Academy of Science.

- Research Award (2000); College of Arts and Sciences, EKU.

PROFESSIONAL ASSOCIATION AND SELECTED PROFESSIONAL SERVICE

- Member, Kentucky Statewide EPSCoR Committee (2006 – present)
- Member, Kentucky NSF EPSCoR Sub-Committee (2006 – present)
- Member, Council of Colleges of Arts and Sciences [CCAS] (2005- present)
 - ◆ Member of Committee on Cultural Diversity (2008, 2009, 2010; **Co-Chair**: 2009, 2010)
 - ◆ Member, **Board of Directors** (11/2010 – 11/2014)
 - ◆ **Coordinator**, Annual Evaluation of Executive Director of CCAS (1/2013-4/2013)
 - ◆ **Chair**, Subcommittee of Board of Directors to design a mentoring program for new deans (11/2010 - 1/2012)
 - ◆ **Chair**, Case Studies Selection Committee (1/2011 – 1/2014)
 - ◆ Board Liaison, Committee on Comprehensive Institutions (11/2011-11/2012)
 - ◆ Board Liaison, Committee on Associate/Assistant Deans (11/2012- 11/2014)
 - ◆ Member, Ad hoc Committee on Governance (1/2014 – 11/2014)
- Member, Kentucky Biomedical Research Infrastructure Network (KBRIN) Steering Committee (2004 – present)
- Member, American Chemical Society (1993-2004; Public Relations Chair: Lexington Section, 1997 - 2002)
- Member, Council on Undergraduate Research (EKU Liaison, 1995 - present)
- Member, Kentucky Academy of Science (Ordinary member since 1998, Life member since 2002)
- Member, Kentucky Science Teachers Association (2004 - 2007)
- Member, National Science Teachers Association (2004 - 2009)
- Founding Member, Central States Regional Undergraduate X-ray Diffraction Consortium (1999)

COMMUNITY OUTREACH

- Served as Project Director of EKU's Governor's Minority Student College Preparation Program (GMSCPP), providing academic enrichment opportunities to middle school students from diverse backgrounds in Madison County, Kentucky (8/15 – 6/2016).
- Served as Project Director of EKU's GK-12 program (ISMAM), working with six middle schools in Appalachian Kentucky to improve the teaching of science and mathematics in these schools by infusing the use of inquiry-based instruction and technology into their curricula (1/03 – 6/06).
- My outreach activities have primarily involved giving talks, presenting demonstrations or participating in science career days in local K-12 schools.

SELECTED NON INSTRUCTIONAL SERVICE (Eastern Kentucky University)*University Level Service*

5/2016-present	Academic Budget-Review Committee
2/2016-5/2016	Search Committee, Director Secondary School, Model Laboratory School (Chair)
9/2015-5/2016	Inclusive Excellence Workgroup
1/2015-6/2016	Equity Complaint Council (Chair)
4/2015-8/2015	EKU Liaison to Council of Colleges of Arts and Sciences for On-Campus Leadership Development Workshops for Department Chairs/Program Directors
1/2015-4/2015	Staff and University Culture Strategic Initiative Team
1/2015-11/2015	Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Compliance Team: Narrative Writer
11/2014-3/2015	Search Committee, Assistant Vice President for Institutional Effectiveness and Research
6/2014- present	Provost's Professional Development Workgroup
4/2014-12/2014	Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Compliance Readiness Audit Team
10/2013-6/2014	Governor's Minority Student College Preparation Program 2014 Annual Statewide Conference Organizing Committee
10/2013-5/2014	Search committee, Dean of College of Business & Technology
8/2013-2/2014	Faculty Workload Regulation Drafting Team
2/2012-3/2014	Evaluation of Full-Time Faculty Not Eligible for Tenure Drafting Team
11/2010-1/2015	Diversity Planning Council
9/2010-8/2014	Goldwater Scholarship Faculty Representative for EKU
9/2010-5/2013	Evaluation of Non-Tenured Tenure-Track Faculty Policy Drafting Team
11/2009-8/2011	Digital Measures Workgroup
10/2008-5/2012	University Promotion and Tenure Policy Drafting Team
1/2008-5/2008	Externally Sponsored Projects Workgroup
9/2008-9/2008	National Endowment for the Humanities Summer Stipends Selection Committee (Chair)
2/2007-3/2007	Search committee, Associate Director of Division of Sponsored Programs
8/2006-11/2006	Search committee, Director of Division of Sponsored Programs
6/2006-12/2007	University Grants Policy Workgroup
8/2005-8/2007	Honorary Degree Nomination Committee
8/2005-8/2009	Social Work Program Advisory Group
8/2003-5/2004	Search committee for Dean of College of Arts and Sciences
12/2000-8/2004	Student Support Subcommittee of the Graduate Council (Chair , 12/2000-8/2002)
9/2000-8/2004	Graduate Council
9/1996-8/1999	Library Committee

College of Arts and Sciences Committees

7/2015-9/2015	Grants and Research Specialist Search Committee (Chair)
1/2015-5/2016	Commencement committee
9/2006-6/2016	Strategic Planning & Budget Committee
9/2006-6/2016	Research & Faculty Development Committee (Chair)
8/2005-8/2013	Promotion and Tenure Committee (Chair)
8/2005-2/2006	Promotion and Tenure Policies Review Committee, <i>Ad hoc</i>
7/2005-4/2009	New Science Building Planning Committee, <i>Ad hoc</i> .
9/2004-4/2005	New Science Building Lobbying Committee (Chair), <i>Ad hoc</i> .
9/2004-8/2006	Faculty Development Committee (Chair)
9/2004-8/2006	Strategic Planning & Budget Work Group
9/2004-8/2006	Roark Lecture Selection Committee (Chair), <i>Ad hoc</i>
9/2003-8/2004	Sabbatical Leave Committee
2/2004-8/2004	Dean's Award of Merit Committee
9/2000-8/2002	Promotion and Tenure Committee

College of Natural and Mathematical Sciences Committees

9/1995-6/1999	Member, Scholarship Committee
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Department of Physics and Astronomy Committees

1/2009-5/2009	Member, Faculty Search Committee, <i>Ad hoc</i>
9/2008-6/2009	Department Chair Search Committee (Chair), <i>Ad hoc</i>
3/2008-6/2008	Department Chair Search Committee (Chair), <i>Ad hoc</i>
9/2003-8/2004	Member, Promotion and Tenure Committee

Department of Chemistry Committees

11/2003-5/2004	Faculty Search Committee (Inorganic Visiting) (Chair), <i>Ad hoc</i>
9/2003-12/2003	Member, Executive Committee (elected)
9/2003-8/2004 & 9/2000-8/2002	Member, Promotion and Tenure Committee (elected) [Chair , 9/2000-8/2002]
9/2003-8/2004 & 9/2000-8/2002	Member, Sabbatical Leave Committee (elected) [Chair , 9/2000- 8/2002]
9/2003-8/2004 & 9/1998-8/2000	Member, Merit Pay Policy and Appeals Committee (elected) [Chair , 9/1999-8/2000]
9/1997-8/2004	Member, Graduate Committee [Chair , 9/1997-8/2002 & 9/2003- 8/2004]
11/2001-8/2003	Budget and Chair's Advisory Committee
12/2001-5/2002	Member, Laboratory Instructors Orientation Committee
12/2000-12/2001	Member, CHE105 Resolution Committee, <i>Ad hoc</i> .
9/2001-11/2001	Member, Forensic Science Budget Request Committee, <i>Ad hoc</i> .
9/2000-11/2001	Member, Department Chair's Internal Advisory Committee
9/1996-8/2000	Member, Planning Committee
9/1995-8/2000	Member, Academic Practices Committee (elected)
2/2000-5/2000	Faculty Search Committee (Analytical/Forensic)(Chair), <i>Ad hoc</i> .
2/2000-5/2000	Instructor Evaluation Form Development Committee (Chair), <i>Ad hoc</i> .
12/1999-5/2000	Member, CHE 111/112 Lab Advisory Committee, <i>Ad hoc</i> .
12/1999-5/2000	Member, Library Advisory Committee, <i>Ad hoc</i> .

9/1998-9/1999	Member, Internal Advisory Committee
1/1999-5/1999	Department Chair Search Committee (Chair)(elected, <i>ad hoc</i>)
1/1999-5/1999	Member, CHE 101/105 Laboratory Advisory Committee
1/1998-4/1998	Member, CHE 101/105 Combination Advisory Committee, <i>Ad hoc</i> .
2/1997-4/1997	Member, CHE 101/105 Objectives Committee, <i>Ad hoc</i> .
1/1996-5/1996	Member, Committee on 2 nd Systematic Method of Evaluation of Teaching, <i>Ad hoc</i> .

COURSES TAUGHT (Eastern Kentucky University)

CHE 105	Chemistry for the Health Sciences I
CHE 111	Introductory Chemistry I
CHE 112	Introductory Chemistry II
CHE 495	Introduction to Research. Supervised research of 17 undergraduate students
CHE 501	Chemtopics: Introduction to Bioinorganic Chemistry
CHE 515/715	Analysis and Characterization
CHE 550/750	Inorganic Chemistry
CHE 805 (501/701)	Bioinorganic Chemistry
CHE 850	Advanced Inorganic Chemistry

ACADEMIC STUDENT ADVISING

- Graduate Students Advisor**, Department of Chemistry, 9/97-8/02 & 9/2003-8/2004

ADVISOR, MASTERS THESES

- Kamruz MD Zaman. Synthesis and Characterization of Some Vanadium(IV) Complexes, 2003.

ADVISOR, MASTERS NON-THESES

- Harpreet K. Dhooper. A Review of Chemistry of Copper(I)-Pyrazine Coordination Polymers, 2005.
- Betty K. Ikunyua. Coordination Polymers of Copper(I): Factors Affecting Structural Dimensionality, 2002.

RESEARCH STUDENTS' AWARDS:

- J. L. Barnett, 1st place, Graduate Research Poster Competition, the EKU Sigma Xi Chapter, 2005.
- J. L. Barnett, 1st place, graduate chemistry (oral), Kentucky Academy of Science, 2004.
- J. Page, Excellence in Undergraduate Research Award, the EKU Sigma Xi Chapter. 2003.
- Z. L. Dismukes, 1st place, undergraduate chemistry (oral), Kentucky Academy of Science, 2002.
- A. I. McMullin, 1st place, undergraduate chemistry (oral), Kentucky Academy of Science, 2001.

- Ann M. Gipson, 2nd place, undergraduate chemistry (oral), Kentucky Academy of Science, 2000.
- M. Hatfield, 1st place, undergraduate chemistry (oral), Kentucky Academy of Science, 1999.
- J. R. Blanton, 2nd place, Regional Undergraduate Chemistry Research Poster Competition, University of Kentucky, 1998.

RESEARCH INTERESTS

- Inorganic Chemistry. Synthesis, structure and properties of coordination compounds.
- Science Education.
- Faculty Development.
- Academic Leadership.

PUBLICATIONS (§ = undergraduate student co-authors)

Peer Reviewed Book Chapters

- Tom Otieno. Transitioning Strategies from Graduate School to Early Career Faculty. *In Beginning a Career in Academia: A Guide for Graduate Students of Color*. D. A. Mack, E. Watson, and M. M. Camacho, Eds.; Routledge: New York, NY **2015**, pp. 73 – 85.
- Tom Otieno. Navigating the tenure and promotion processes at regional comprehensive universities: Challenges and coping strategies. *In Mentoring faculty of color: Essays on professional development and advancement in colleges and universities*. D. Mack, E. D. Watson, and M. M. Camacho, Eds.; McFarland & Company: Jefferson, NC **2013**, pp. 26 – 41.
- Tom Otieno. Making a difference in the daily routine. *In Views from the frontline: Voices of conscience on college campuses*. S. Thompson, Ed.; Common Ground Publishing: Champaign, IL **2012**, pp. 59-79.

Editorially Reviewed Book Chapters

- Susan Godbey, Tom Otieno, and Daniel Tofan. Open laboratories in college science. *In Handbook of College Science Teaching*. Joel J. Mintzes and William H. Leonard, Eds.; NSTA Press: Arlington, VA **2006**, Chapter 9, pp. 87-95.

Refereed Journal Articles

- Tom Otieno, Paula M. Lutz, and F. Andrew Schoolmaster. Enhancing recruitment, professional development and socialization of junior faculty through formal mentoring programs. *Metropolitan Universities Journal*. **2010**, 21(2), 77-91.
- Tom Otieno and Melinda Wilder. Enhancing inquiry-based science and math in Appalachian middle schools: A model for community engagement. *Kentucky Journal of Excellence in College Teaching and Learning*. **2010**, 8, 9-19.
- Tom Otieno, Jaime R. Blanton[§], Kena J. Lanham[§], and Sean Parkin. Poly- μ -2,5-dimethylpyrazine- μ -dithiocyanato-*N,S,S*-dicopper(I): a three-dimensional coordination polymer containing both molecular and anionic rod ligands. *J. Chem. Crystallogr.* **2003**,

33(5-6), 335-339.

- Tom Otieno, Aaron Hutchison, Matthew K. Krepps and David A. Atwood. Synthesis, spectral and thermal properties of pyrazine-bridged coordination polymers of copper(II) nitrate. *J. Chem. Educ.* **2002**, *79*, 1355-1357.
- Tom Otieno, Andrea T. Pinkston[§], Natisha C. Johnson[§] and Sean Parkin. Aquatetrakis(2-methylpyrazine- κN)(nitrato- κO)copper(II) nitrate. *Acta Cryst.* **2002**, *E58*, m328-m330.
- Tom Otieno, Ann M. Gipson[§] and Sean Parkin. Synthesis and X-ray characterization of a polymeric 1:3 complex of copper(II) nitrate with pyrazine. *J. Chem. Crystallogr.* **2002**, *32(3-4)*, 81-85.
- Tom Otieno, Jaime R. Blanton[§], Michael J. Hatfield[§], Sherry L. Asher[§] and Sean Parkin. A copper(II)-pyrazole complex cation with $\bar{3}$ imposed symmetry. *Acta Cryst.* **2002**, *C58*, m182-m185.
- Tom Otieno, Michael J. Hatfield[§], Sherry L. Asher[§], Angela I. McMullin[§], Brian O. Patrick, and Sean Parkin. Structures of pentakis(imidazole)copper(II) hexafluoroarsenate monohydrate and chlorotetrakis(imidazole)copper(II) chloride. *Synth. React. Inorg. Metal-Org. Chem.* **2001**, *31(9)*, 1587-1598.
- Jaime R. Bailey[§], M. Jason Hatfield[§], Kevin R. Henke, Matthew K. Krepps, Jessica L. Morris[§], Tom Otieno, Karen D. Simonetti[§], Eric A. Wall, David A. Atwood. Transition metal complexes of 2,4,6-trimercapto-1,3,5-triazine (TMT): potential precursors to nanoparticulate metal sulfides, *J. Organomet. Chem.* **2001**, *623 (1-2)*, 185-190.
- Norman S. Dean, Ladd M. Mokry[§], Marcus R. Bond, Madan Mohan, Tom Otieno, Charles J. O'Connor, K. Spartalian and Carl J. Carrano. Vanadium hydrotris(pyrazolyl)borate complexes of diphenyl phosphate. Heterometallic complexes of the $[LV\{PhO\}_2PO_2]_3^-$ fragment. *Inorg. Chem.* **1997**, *36*, 1424-1430.
- Tom Otieno, Ladd M. Mokry[§], Marcus R. Bond, Carl J. Carrano and Norman S. Dean. Non-template-centered, closed tetravanadium phosphate and phosphonate clusters. *Inorg. Chem.* **1996**, *35*, 850-856.
- Tom Otieno, Marcus R. Bond, Ladd M. Mokry[§], Ronald B. Walter and Carl J. Carrano. Plasmid DNA cleavage by oxo bridged V(III) dimers without added co-oxidants or reductants. *Chem. Commun.* **1996**, 37-38.
- Tom Otieno and Robert C. Thompson. Antiferromagnetism and metamagnetism in 1,4-diazine and pyridine complexes of nickel(II). *Can. J. Chem.* **1995**, *73*, 275-283.
- Marcus R. Bond[§], Ladd M. Mokry[§], Tom Otieno, Jeffrey Thompson[§] and Carl J. Carrano. Three new polynuclear, bis(μ -phosphato) vanadyl clusters: $[HB(pz)_3VO(\mu-(C_6H_5O)_2PO_2)]_2$, $[HB(3,5-Me_2pz)_3VO(\mu-(C_6H_5O)_2PO_2)]_2 \cdot C_7H_8$, and $H_2O-[t-Bupz(\mu-C_6H_5OPO_3)VO]_6(H_2O)_2 \cdot 2CH_3CH_2OH$. Adaptability of the cyclic (OV)(OPO)₂(VO) bridging unit. *Inorg. Chem.* **1995**, *34*, 1894-1905.
- Tom Otieno, Steven J. Rettig, Robert C. Thompson and James Trotter. Pyridazine complexes of copper(II) nitrate: synthesis and structural and magnetic studies. *Inorg. Chem.* **1995**, *34*, 1718-1725.
- Madan Mohan, Marcus R. Bond, Tom Otieno and Carl J. Carrano. Oxovanadium

- pyrazole complexes: synthesis and structure. *Inorg. Chem.* **1995**, *34*, 1233-1242.
- Ladd M. Mokry[§], Jeffrey Thompson[§], Marcus R. Bond, Tom Otieno, Madan Mohan and Carl J. Carrano. Stereochemical control of cluster size in vanadium phosphates. *Inorg. Chem.* **1994**, *33*, 2705-2706.
 - Tom Otieno, Steven J. Rettig, Robert C. Thompson and James Trotter. Structure of (Nitrato-*O*)(nitrato-*O, O'*)tris(pyridazine-*N*)copper(II). *Acta Crystallogr.* **1993**, *C49*, 2067-2070.
 - Tom Otieno, Steven J. Rettig, Robert C. Thompson and James Trotter. Synthesis and structural and magnetic studies of diazine-bridged complexes of copper(II) cyanate. Crystal structure of poly[bis(cyanato-*N*)bis(μ -methylpyrazine)copper(II)]. *Inorg. Chem.* **1993**, *32*, 4384-4390.
 - Tom Otieno, Steven J. Rettig, Robert C. Thompson and James Trotter. Complex polymeric cations of copper(I) with graphite- and diamond-related lattices: crystal structures of poly-tris(μ -2,5-dimethylpyrazine)dicopper(I) hexafluorophosphate and poly-bis(μ -2,5-dimethylpyrazine)copper(I) hexafluorophosphate. *Inorg. Chem.* **1993**, *32*, 1607-1611.
 - Tom Otieno, Steven J. Rettig, Robert C. Thompson and James Trotter. Pyrazine and 2,5-dimethylpyrazine complexes of copper(I) trifluoromethanesulfonate. The crystal and molecular structure of poly- μ -2,5-dimethylpyrazine(2,5-dimethylpyrazine)(trifluoromethanesulfonato-*O*)copper(I). *Can J. Chem.* **1990**, *68*, 1901-1907.
 - T. Otieno, S. J. Rettig, R. C. Thompson and J. Trotter. Synthesis, structure and vibrational spectrum of poly- μ -pyrazine(pyrazine)(trifluoromethanesulfonato-*O*)copper(I). *Can J. Chem.* **1989**, *67*, 1964-1969.

ORAL CONFERENCE PRESENTATIONS ([§] = undergraduate students)

- Dwayne Mack, Elwood D. Watson, Toni G. Jones, Judith Liu, Tasneem Khaleel, Michelle M. Camacho, and Tom Otieno. Mentoring Faculty of Color: Essays on Professional Development and Advancement in Colleges and Universities. *26th National Conference on Race & Ethnicity in American Higher Education*. New Orleans, Louisiana, May/June 2013, Session #446.
- Dwayne A. Mack and Tom Otieno. Mentoring Black Faculty. *30th Annual Conference of Kentucky Association of Blacks in Higher Education*, Richmond, Kentucky, April 2013, Session #1A.
- F. Andrew Schoolmaster, Tom Otieno and Eric Zabilka. Decanal Participation in Building Projects: From Preparation and Planning to Construction and Commissioning. *Post-Conference Workshop, Council of Colleges of Arts and Sciences*, Baltimore, Maryland, November 14, 2009.
- Tom Otieno, George Acquah, J. Blaine Hudson and Eri F. Yasuhara. Bringing them into the fold: Challenges and Responsibilities of Inclusion for International Students and Faculty. *44th Annual Meeting of the Council of Colleges of Arts & Sciences*. Baltimore, Maryland, November 2009, Session #H.
- Tom Otieno. Mid-level Leadership Positions in Institutions of Higher Education: The

Academic Deanship. *The Tenth Annual Southern Interdisciplinary Roundtable on African Studies Conference*. Frankfort, Kentucky, April 2009, Panel #3.

- Tom Otieno, Paula M. Lutz and F. Andrew Schoolmaster. Enhancing professional development of junior faculty through formal mentoring programs. *43rd Annual Meeting of the Council of Colleges of Arts & Sciences*. Portland, Oregon, November 2008, Session #H.
- Tom Otieno, Joan M. Foster, F. Andrew Schoolmaster, and Gary D. Stark. Efficiency in promotion and tenure evaluations through online reviews. *Annual meeting of the Council of Colleges of Arts and Sciences*. Boston, Massachusetts, November 2006, Session #E.
- Megan Alexander[§], Becky Smith, and Tom Otieno. Bounce that ball. *34th Annual Conference of the Kentucky Science Teachers Association*, Lexington, Kentucky, November 2006, Session #47.
- Jennifer Fairchild[§], Tracy Powell-McCoy, and Tom Otieno. Photosynthesis in a Jar. *33rd Annual Conference of the Kentucky Science Teachers Association*, Lexington, Kentucky, November 2005, Session #46.
- Melinda Wilder, Tom Otieno and Jessica Lynn Barnett. Increasing middle school inquiry through collaboration. *National Science Teachers Association 53rd National Convention*, Dallas, Texas, March/April 2005.
- Jessica L. Barnett, Tom Otieno, and Melinda Wilder. Inquiry based science and math in Appalachian middle schools. *32nd Annual Conference of Kentucky Science Teachers Association*, Lexington, Kentucky, November 2004, Session # 105.
- Jessica L. Barnett and Tom Otieno. Synthesis and characterization of diazole complexes of copper(II) thiocyanate. *90th Annual Meeting of the Kentucky Academy of Science*, Murray, Kentucky, November 2004.
- Tracy L. Powell-McCoy, Jennifer L. Fairchild[§], and Tom Otieno. Incorporating technology into a water quality testing experiment. *90th Annual Meeting of the Kentucky Academy of Science*, Murray, Kentucky, November 2004.
- Tom Otieno. Partnerships between university science and mathematics faculty, students and middle school teachers: The Eastern Kentucky University model. *90th Annual Meeting of the Kentucky Academy of Science*, Murray, Kentucky, November 2004.
- Jon Walker[§] and Tom Otieno. Cationic complexes of copper(II) with pyrazole and pyrazine. *89th Annual Meeting of the Kentucky Academy of Science*, Bowling Green, Kentucky, November 2003.
- Kena J. Lanham[§] and Tom Otieno. A three-dimensional coordination polymer containing both molecular and anionic rod ligands. *88th Annual Meeting of the Kentucky Academy of Science*, Highland Heights, Kentucky, November 2002.
- Zachary L. Dismukes[§], Tom Otieno and David A. Atwood. Reactions of [3,3'-bis(2-hydroxybenzylidenimine)]-1,2-diphenoxyethane and [3,3'-bis(2-hydroxy-3-methoxybenzylidenimine)]-1,2-diphenoxyethane with divalent copper, cobalt and nickel acetates. *88th Annual Meeting of the Kentucky Academy of Science*, Highland Heights, Kentucky, November 2002.
- Angela I. McMullin[§] and Tom Otieno. Structure of chlorotetrakis(imidazole)copper(II)

- chloride and its synthesis by chloride atom abstraction from carbon tetrachloride. *Kentucky Academy of Science (87th) / Tennessee Kentucky Academy of Science(111th) Joint Annual Meeting*, Murfreesboro, Tennessee, November 2001.
- Jessica L. Morris[§], Tom Otieno and David A. Atwood. New schiff base ligands for bimetallic transition metal complexes. *Kentucky Academy of Science (87th) / Tennessee Kentucky Academy of Science(111th) Joint Annual Meeting*, Murfreesboro, Tennessee, November 2001.
 - Karen D. Simonetti[§], Tom Otieno and David A. Atwood. Preparation and characterization of 2,4,6-trimercapto-1,3,5-triazine complexes of divalent copper. *33rd Annual Southeastern Regional Student Affiliate of the American Chemical Society Undergraduate Research Conference*, Statesboro, Georgia, April 2001, Abstract 7.
 - Jessica L. Morris[§], Tom Otieno and David A. Atwood. Synthesis and characterization of cobalt(II) complexes of 2,4,6-trimercapto-1,3,5-triazine. *33rd Annual Southeastern Regional Student Affiliate of the American Chemical Society Undergraduate Research Conference*, Statesboro, Georgia, April 2001, Abstract 6.
 - Ann M. Gipson[§] and Tom Otieno. Synthesis and characterization of a pyrazine-bridged coordination polymer of copper(II) nitrate. *86th Annual Meeting of the Kentucky Academy of Science*, Lexington, Kentucky, Nov-Dec. 2000.
 - Jaime R. Bailey[§] and Tom Otieno. Synthesis and characterization of copper complexes of 2,4,6-trimercaptotriazine. *32nd Annual Southeastern Regional Student Affiliate of the American Chemical Society Undergraduate Research Conference*, Richmond, Kentucky, April 2000, Abstract O6.
 - Sherry L. Asher[§], M. Jason Hatfield[§], and Tom Otieno. Synthesis and crystal structure of pentakis(imidazole)copper(II) hexafluoroarsenate monohydrate. *85th Annual Meeting of the Kentucky Academy of Science*, Richmond, Kentucky, November 1999.
 - Tom Otieno. Diaquadihydroxodithiocyanato-*N*-vanadium(IV). *51st Southeastern Regional Meeting of the American Chemical Society*, Knoxville, Tennessee, October 1999, Abstract 307.
 - Jaime R. Blanton[§], Sherry L. Asher[§], Michael J. Hatfield[§], and Tom Otieno. Hexakis(pyrazole)copper(II) complexes. *31st Annual Southeastern Regional Student Affiliate of the American Chemical Society Undergraduate Research Conference*, Cullowhee, North Carolina, April 1999, Abstract 1.
 - Jaime R. Blanton[§] and Tom Otieno. Synthesis and characterization of coordination polymers of copper(I) thiocyanate. *30th Annual Southeast Regional Student Affiliates of the American Chemical Society Undergraduate Research Conference*, Kennesaw, Georgia, March 1998, Abstract 7.
 - Wendell B. Lake[§] and Tom Otieno. Synthesis and characterization of vanadium(IV) thiocyanate complexes. *29th Annual Southeast Regional Student Affiliates of the American Chemical Society Undergraduate Research Conference*, Johnson City, Tennessee, March 1997, Abstract 18.
 - Tom Otieno and Robert C. Thompson. Diazine complexes of copper(II) hexafluorophosphate and hexafluoroarsenate. *48th American Chemical Society Southeast Regional Meeting*, Greenville, South Carolina, November 1996, Abstract 231.

- Marcus R. Bond and Tom Otieno. Consideration of bridging geometries in rational synthesis of oxovanadium phosphates. *The XVII Congress and General Assembly of the International Union of Crystallography*, Seattle, Washington, August 1996, Abstract E1222.
- Tom Otieno, Madan Mohan, Marcus R. Bond and Carl J. Carrano. Synthesis and characterization of vanadium pyrazole complexes. *50th American Chemical Society Southwest Regional Meeting*, Fort Worth, Texas, November 1994, Abstract 83.
- T. Otieno, L. Mao and R.C. Thompson. Effects of 1,4-diazine bridging on the magnetic properties of coordination polymers of nickel(II). *77th Canadian Society for Chemistry Conference and Exhibition*, Winnipeg, Manitoba, June 1994, Abstract 441.
- T. Otieno, S.J. Rettig, R.C. Thompson and J. Trotter. Synthesis and structures of 2,5-dimethylpyrazine-bridged cationic polymers of copper(I). *76th Canadian Society for Chemistry Conference and Exhibition*, Sherbrooke, Quebec, May 1993, Abstract 140.
- T. Otieno and R.C. Thompson. Magnetic exchange effects in polynuclear pyridazine-bridged complexes of copper(II) and nickel(II). *76th Canadian Society for Chemistry Conference and Exhibition*, Sherbrooke, Québec, May 1993, Abstract 333.

POSTER PRESENTATIONS (§ = undergraduate students)

- Melanie Bentley, Tom Otieno, Kevin N. Minor, and Travis Witt. Communicating STEM research to a broader audience. *Annual Kentucky EPSCoR Conference*, Lexington, Kentucky, May 2015, Abstract 90.
- Tom Otieno. The role of university professors in scientist-teacher partnerships under the GK-12 program. *National Science Foundation West Coast GK-12 Meeting*, Anaheim, California, April 2006.
- Tom Otieno, Megan Alexander[§], Sherry Harrel, Karen W. Carey, and Lois Webster. The impact of the GK-12 program on participating Eastern Kentucky University students. *Annual meeting for National Science Foundation GK-12 Project Teams*, Washington, DC, March 2006.
- Tom Otieno, Sherry Harrel, J. Kenneth Mattingly, and Karen W. Carey. Enhancing inquiry-based science and math in Appalachian middle schools: The role of university students. *Annual meeting for National Science Foundation GK-12 Project Teams*, Arlington, Virginia, March 2005.
- Jessica L. Barnett, James K. Mattingly, Karen W. Carey and Tom Otieno. Enhancing inquiry-based science and math in Appalachian middle schools (ISMAM). *Annual meeting for National Science Foundation GK-12 Project Teams*, Arlington, Virginia, March 2004.
- Matthew Thompson[§], Tom Otieno, and Margaret M. Soto. Enhancing science instruction in middle schools: A collaboration between Eastern Kentucky University and Madison Middle School. *3rd Annual Eastern Kentucky University Undergraduate Presentation Showcase*, Richmond, Kentucky, April 2004, Abstract 39.
- Tiffani Sampson[§] and Tom Otieno. Tetrakis(pyrazole)dithiocyanato-*N*-copper(II): synthesis and characterization. *3rd Annual Eastern Kentucky University Undergraduate Presentation Showcase*, Richmond, Kentucky, April 2004, Abstract 38.

- Jon Walker[§] and Tom Otieno. Synthesis and structure of tetrakis(3,5-dimethylpyrazole)copper(II) perchlorate monohydrate. *3rd Annual Eastern Kentucky University Undergraduate Presentation Showcase*, Richmond, Kentucky, April 2004, Abstract 37.
- Matthew Thompson[§], Tom Otieno, and Margaret M. Soto. Enhancing science instruction in middle schools: A collaboration between Eastern Kentucky University and Madison Middle School. *89th Annual Meeting of the Kentucky Academy of Science*, Bowling Green, Kentucky, November 2003.
- Tom Otieno. Transition metal complexes of 2,4,6-trimercapto-1,3,5-triazine (TMT). *9th Annual Kentucky EPSCoR Conference*, Lexington, Kentucky, May 2003, Abstract 42.
- Juddson Page[§] and Tom Otieno. Two new coordination polymers of copper and 2,5-dimethylpyrazine. *2nd Annual Natural Sciences Graduate and Undergraduate Research Poster Day (Hosted by EKU's department of Biological Sciences)*, Richmond, Kentucky, May 2003.
- Juddson Page[§] and Tom Otieno. Two new coordination polymers of copper and 2,5-dimethylpyrazine. *2nd Annual Eastern Kentucky University Showcase for Undergraduate Scholarly and Creative Activities*, Richmond, Kentucky, April 2003, Abstract 18.
- Tom Otieno, Matthew K. Krepps, Aaron R. Hutchison and David Atwood. Synthesis and spectral and thermal properties of pyrazine-bridged coordination polymers of copper(II) nitrate: An experiment for advanced undergraduates. *225th American Chemical Society National Meeting*, New Orleans, Louisiana, March 2003, Abstract CHED132.
- Kamruz M. Zaman and Tom Otieno. Preparation and characterization of aquaioxobis(pyrazole)dithiocyanato-*N*-Vanadium(IV) and related complexes. *88th Annual Meeting of the Kentucky Academy of Science*, Highland Heights, Kentucky, November 2002.
- Angela I. McMullin[§] and Tom Otieno. Cationic imidazole-copper(II) compounds: A demonstration of the rewards of faculty-student collaborations. *1st Annual Eastern Kentucky University Showcase for Undergraduate Scholarly and Creative Activities*, Richmond, Kentucky, April 2002, Abstract 17.
- Andrea T. Pinkston[§], Tom Otieno and David A. Atwood. [3,3'-Bis(2-hydroxybenzylidenimine)]-1,2-diphenoxyethane and [3,3'-Bis(2-hydroxy-3-methoxybenzylidenimine)]-1,2-diphenoxyethane. *34th Annual Southeastern Regional Student Affiliate of the American Chemical Society Undergraduate Research Conference*, Johnson City, Tennessee, April 2002, Abstract 5.
- Angela I. McMullin[§] and Tom Otieno. Cationic imidazole-copper(II) compounds: A demonstration of the rewards of faculty-student collaborations. *A Celebration of EKU Excellence in Scholarly and Creative Work; a poster session organized as part of President Joanne Glasser's inaugural activities*, Richmond, Kentucky, March 2002.
- Jaime R. Blanton[§] and Tom Otieno. Synthesis and characterization of coordination polymers of copper(I) thiocyanate. *University of Kentucky Regional Undergraduate Chemistry Research Poster Competition*, Lexington, Kentucky, April 1998, Abstract 3.

- Tom Otieno. Control of pseudohalide bonding modes in vanadium complexes. *Sixth National Conference of the Council on Undergraduate Research*, Durham, North Carolina, June 1996, p. 23.
- Tom Otieno and Robert C. Thompson. Magnetic properties of pyrazine-bridged coordination polymers of copper(II) sulfonates. *50th American Chemical Society Southwest Regional Meeting*, Fort Worth, Texas, November 1994, Abstract 101.
- T. Otieno and R.C. Thompson. Synthesis and characterization of polymeric pyrazine and pyridazine complexes of copper(II) and nickel(II) cyanates. *74th Canadian Chemical Conference and Exhibition*, Hamilton, Ontario, June 1991, Abstract 536 NM-D1.
- T. Otieno, S.J. Rettig and R.C. Thompson. Structure and vibrational spectrum of a pyrazine-bridged chain complex of copper(I), poly-Cu(μ -pyz)(pyz)(CF₃SO₃). *72nd Canadian Chemical Conference and Exhibition*, Victoria, British Columbia, June 1989, Abstract 300 IN-D4P.

VIDEO PRESENTATION

- Kevin N. Minor, Traviss Witt, Melanie Bentley, and Tom Otieno. Communicating STEM research to a broader audience through videography. *Annual Kentucky EPSCoR Conference*, Lexington, Kentucky, May 2015, Abstract 97 (Selected for presentation to the main audience from top videos submitted).

INVITED TALKS AT COLLEGES AND UNIVERSITIES

- Tom Otieno. Educational opportunities in the United States of America. Siriba Campus, Maseno University, Maseno, Kenya, June 9, 2015.
- Tom Otieno. Practical strategies for faculty development and success. Sponsored by the Provost and the Council of Deans, Eastern Kentucky University, Richmond, Kentucky, February 19, 2014.
- Tom Otieno. Systematic approaches to teaching evaluation. AddRan College of Liberal Arts, Texas Christian University, Fort Worth, Texas, February 29, 2012.
- Tom Otieno. Educational opportunities in the United States of America. College of Biological and Physical Sciences, University of Nairobi, Nairobi, Kenya, July 28, 2010.
- Tom Otieno. Educational opportunities in the United States of America. Kisumu Polytechnic, Kisumu, Kenya, July 19, 2010.
- Tom Otieno. Educational opportunities in the United States of America. City Campus, Maseno University, Kisumu, Kenya, July 14, 2010.
- Tom Otieno. Principles of inorganic materials synthesis and characterization. Department of Chemistry (Chemistry Club), Eastern Kentucky University, Richmond, Kentucky, March 7, 2006.
- Tom Otieno. Inorganic materials synthesis at ECU: from small molecules to polymeric materials. Department of Chemistry (Chemistry Club), Eastern Kentucky University, Richmond, Kentucky, September 18, 2002.
- Tom Otieno. Synthesis and characterization of diazole complexes containing cationic copper(II) chromophores. Department of Chemistry and Geology, Campbellsville University, Campbellsville, Kentucky, October 26, 2001.

- Tom Otieno. Synthesis and characterization of diazole complexes containing cationic copper(II) chromophores. Department of Chemistry, Western Kentucky University, Bowling Green, Kentucky, February 23, 2001.
- Tom Otieno. Synthesis and characterization of mononuclear copper(II) and vanadium(IV) pyrazole complexes. Department of Chemistry, University of Kentucky, Lexington, Kentucky, April 2, 1999.
- Tom Otieno. Synthesis and characterization of copper(I) and vanadium(IV) thiocyanate complexes. Department of Chemistry, Berea College, Berea, Kentucky, February 26, 1998.

FUNDED PROPOSALS/GRANTS

- Enhancing Inquiry-Based Science and Math in Appalachian Middle Schools: Supplemental Award. *PI:* Tom Otieno. National Science Foundation, \$34,000. Funded, August 2005 – June 2006.
- Enhancing Inquiry-Based Science and Math in Appalachian Middle Schools: Supplemental Award. *PI:* Tom Otieno. National Science Foundation, \$68,000. Funded, June 2004 – June 2005.
- Enhancing Inquiry-Based Science and Math in Appalachian Middle Schools: Supplemental Award. *PI:* Tom Otieno. National Science Foundation, \$48,000. Funded, June 2003 – June 2004.
- SMARTer Kids Grant for NEC VT660 projector. Tom Otieno. SMARTer Kids Foundation, \$796. Funded, February 2003 (Grant number: #NEC-UF2032)
- Enhancing Inquiry-Based Science and Math in Appalachian Middle Schools. *PI:* Tom Otieno. *Co-PIs:* Melinda S. Wilder, Brandon Hargis, Jerry D. Cook, William W. Farrar, Malcolm P. Frisbie, Kirk E. Jones and Chongkye Rhee. National Science Foundation, \$1,341,668. Funded, January 2003 – December 2005.
- Diazole and diazine complexes of copper(II) incorporating weakly coordinating anions. Tom Otieno. Kentucky NSF EPSCoR REG program, \$24,988. Funded, May 2002 - May 2004.
- Synthesis and Applications of new metal chelate ligands. David A. Atwood and Tom Otieno. Kentucky NSF EPSCoR (Summer Research Program) \$12,562. Funded, June 5, 2002 – July 31, 2002.
- Bimetallic Transition Metal Catalysts. David A. Atwood and Tom Otieno. Kentucky NSF EPSCoR (Summer Research Program), \$15,200. Funded, May 14, 2001 - August 2, 2001.
- Sacrificial Sulfur Ligands in the Formation of Nanoparticulate Sulfide Materials. David A. Atwood and Tom Otieno. Kentucky NSF EPSCoR (Summer Research Program), \$14,880. Funded, May 18, 2000 - July 27, 2000.
- The Preparation and Characterization of Hexakis(azole)copper(II) Complexes. Tom Otieno, ECU University Research Committee, \$1,302.00. Funded, March 1999 - March 2001.
- Sulfur Ligands in Heavy Metal Remediation and in the Formation of Nanoparticulate Materials. David A. Atwood and Tom Otieno. Kentucky NSF EPSCoR (Summer

Research Program), \$14,891. Funded, May 20, 1999 - July 29, 1999.

- Synthesis and Characterization of New Vanadium Thiocyanate Compounds. Tom Otieno, ECU University Research Committee, \$ 2,655.98. Funded, April 1996 - December 1997.
- Coordination Chemistry of Vanadium Cyanate Compounds. Tom Otieno, Kentucky NSF EPSCoR, \$15,000. Funded May 1996 - June 1997.

REFERENCES: Available upon request.