

PROMOTION RECOMMENDATION
The University of Michigan-Flint
College of Arts and Sciences
Department of Chemistry and Biochemistry

Nicholas B. Kingsley, assistant professor of chemistry, Department of Chemistry and Biochemistry, College of Arts and Sciences, is recommended for promotion to associate professor of chemistry, with tenure, Department of Chemistry and Biochemistry, College of Arts and Sciences.

Academic Degrees:

Ph.D.	2009	University of Toledo, Toledo, Ohio
B.S.	2002	Siena Heights University, Adrian, Michigan

Professional Record:

2010-Present	Assistant Professor, University of Michigan-Flint
2009-2010	Visiting Assistant Professor, Mercy College of Northwest Ohio, Toledo, Ohio

Summary of Evaluation:

Teaching – Professor Kingsley is an excellent chemistry instructor who teaches courses ranging from those for non-major health professionals and introductory level students through advanced courses in his specialization of inorganic chemistry to a graduate seminar on Chemical Applications of Group Theory. He started as a strong teacher and has recently been recognized in 2015 with the Dr. Lois Matz Rosen Junior Faculty Excellence in Teaching Award. Throughout his teaching, Professor Kingsley strives to find new ways to generate student success while maintaining high standards. Peer evaluations commend both his command of the course materials and his command of the classroom. Beyond traditional classroom teaching, Professor Kingsley has mentored seven research students in his highly technical area of research which requires him to provide extensive training in procedures. Three of his former students are now pursuing doctoral training as a result of his mentorship.

Research – Professor Kingsley's scholarship examines the synthesis and chemistry of compounds designed to catalyze other reactions. Despite limitations created by the absence of desired equipment, building renovations that resulted in the decommissioning of his research laboratory for two summers, and the complexity of the laboratory techniques required to synthesize new aluminum catalyst compounds, Professor Kingsley has published three peer-reviewed articles in respected journals in his field of inorganic chemistry. His external reviewers agree that his techniques are "sophisticated and difficult" and that his work represents "good quality, careful, well-documented experimental work" in the discipline. He has established an independent research program that has allowed him to fully develop student collaborators into co-authors in this work.

Recent and Significant Scholarly Activity:

Peer-Reviewed Journal Articles

- Kingsley, N. B., Doyon, T. J. [★] and Shephard, L. E. [★] (2016). "Synthesis and Characterization of Dialkylaluminum Arylimine Complexes." *Journal of Organometallic Chemistry*, 801, 48-53. DOI: 10.1016/j.jorgchem.2015.10.026.
- Shephard, L. E. [★] and Kingsley, N. B. (2015). "Synthesis and Characterization and Crystal Structure of a 2-(Diethylaminomethyl) Indole Ligated Dimethylaluminum Complex." *Acta Cryst*, E71, 1222-1225.
- Kingsley, N. B., Kirschbaum, K., Teprovich, J. A., Flowers, R. A. and Mason, M. R. (2012). "Synthesis and Calorimetric, Spectroscopic, and Structural Characterization of Isocyanide Complexes of Trialkylaluminum and Tri-tert-butylgallium." *Inorganic Chemistry*, 51, 2494-2502.
- Kingsley, N. B., Kirschbaum, K. and Mason, M. R. (2010). "Confirmation of Bridging N-Indolides in 3-Methylindole and Di- and Tri(3-methylindolyl)methane Complexes of Dimethyl-, Diethyl-, and Diisobutylaluminum." *Organometallics*, 29 (22), 5927-5935.

Poster Presentations

- Tyler J. Doyon [★] and Kingsley, Nicholas B. "Isolation and Characterization of Group 13 Bis(2-(1-methylimidazolyl)methyl)amine Complexes." American Chemical Society Spring National Meeting, Denver, Colorado, March 2015.
- Logan E. Shephard [★] and Kingsley, Nicholas B. "Isolation and Characterization of Group 13 Orthometallated Arylimine Complexes." American Chemical Society Spring National Meeting, New Orleans, Louisiana, April 2013.
- Logan E. Shephard [★] and Kingsley, Nicholas B. "Isolation and Characterization of Group 13 Orthometallated Arylimine Complexes." Midwest Symposium on Undergraduate Research in Chemistry, Lansing, Michigan, October 2012.
- Logan E. Shephard [★] and Kingsley, Nicholas B. "Preparation of (dialkylaminomethyl) Indoles and Their Corresponding Alkyl Aluminum Complexes." American Chemical Society Spring Regional Meeting, Dearborn, Michigan, June 2012.

[★] *Undergraduate Co-Author(s).*

Service – The hallmark of Professor Kingsley's service contributions is balance. He has amassed a wide range of valuable service activities across departmental, college, community, and professional activities. He has been particularly active in serving his department in roles from Safety Committee chairperson, to planning for the Murchie Science Building renovation moves, and ordering of new equipment. He has served on seven search committees, chairing one, for positions ranging from department laboratory support staff to tenure track faculty colleague positions. Professor Kingsley's community outreach has ranged from support of recruitment and admissions events on campus including Super Science Friday, to roles in local conferences (Meeting of the Minds) and the Science Olympiad. Professionally he has reviewed chapters, textbooks, and online homework platforms for Wiley and has developed PowerPoint presentations for a new edition of an introductory chemistry textbook. In all of his service activities, Professor Kingsley is viewed as an active and energetic contributor.

External Reviewers:

Reviewer (A): "...both journals [*Inorganic Chemistry* and *Organometallics*] are well-respected with high impact factors in the field of inorganic chemistry. More recently, it is clear that Dr. Kingsley has established his own independent research program which is now producing results... .. It is notable that he has been able to train his student coworkers well and that they have been successful in synthesizing and characterizing numerous compounds."

Reviewer (B): "...Prof. Kingsley's dossier includes ample evidence that he has aggressively pursued the expectations of the University and the Department... .. This full article in the premier sub disciplinary journal [*Inorganic Chemistry*] represents a significant scholarly achievement. The techniques utilized are sophisticated and difficult. The analysis of the results is nuanced and addressed important questions... .. Of the papers included in this dossier, this is the outstanding work... .. The techniques being utilized by Prof. Kingsley and his students are challenging and require exceptional attention to detail and care... .. Prof. Kingsley has been exceptionally active in his service contributions to the field."

Reviewer (C): "In evaluating Prof. Kingsley's supplemental information, it does indicate that he has submitted an ACS PRF proposal (not funded) and also an NSF MRI (not funded). These are important steps towards obtaining funding and I would encourage him to keep submitting these types of proposals... .. I must commend Prof. Kingsley for submitting manuscripts with undergraduate coauthors... .. I would also commend him for presenting his work at local and national meetings."

Reviewer (D): "The work is a solid contribution to the study of Group 3 complexes and was published in the journal *Inorganic Chemistry*, the premier specialty journal in the subfield of inorganic chemistry... .. From this article and an earlier publication of his doctoral work, it is evident that Prof. Kingsley has the background to successfully conduct research and train students in his chosen area of scientific exploration... .. It is commendable that Prof. Kingsley has made an effort to attend national and regional meetings of the American Chemical Society, and that he involved two students, Tyler Doyon and Logan Shephard in these poster presentations."

Reviewer (E): "Dr. Kingsley has undertaken some difficult chemistry and has successfully brought it to completion... .. [Regarding the *Journal of Organometallic Chemistry*, 2016] As in the previous work, the synthesis of aluminum complexes in high yield requires good experimental technique. The complexes are well-characterized and Kingsley does a good job describing the analytical data (NMR, X-ray) in a clear but concise manner, thus convincing the reader that he has prepared the desired complexes... .. These papers and posters represent good quality, careful, and well-documented experimental work in our discipline."

Reviewer (F): "The work described [in *Acta Cryst. E* and *Journal of Organometallic Chemistry*] is challenging and significant synthetic work involving highly reactive complexes of aluminum. I am impressed that he and his students have been able to prepare and isolate all of these complexes and characterize them using NMR spectroscopy and X-ray diffraction... .. Getting undergraduate students involved in research early in their careers is important and it is significant that these students were given multiple opportunities to present their work, both locally and nationally. The

posters themselves are of very high quality and display a significant amount of work... ...the work that is shown is of *high quality*.”

Reviewer (G): “I am glad to see that Professor Kingsley has had nine undergraduates working with him in lab... ... He has had two students present posters at national ACS meetings, which is a positive... ...‘Determining Publication Productivity and Grant Activity Among Science Faculty at Surveyed Institutions’ the average number of publications for a faculty member in chemistry is 0.60 per year. As that is an average number, I do not think it would ‘require’ Professor Kingsley to have three publications to be worthy of tenure...”

Summary of Recommendation:

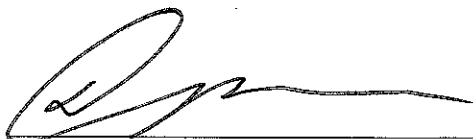
Student feedback and peer evaluations of Professor Kingsley’s teaching have always been strong. His excellence in teaching was recently recognized with the Dr. Lois Matz Rosen Junior Faculty Excellence in Teaching award. He has developed an independent, quality research program, developed a record of published work, and is poised to expand that work. Professor Kingsley has been able to successfully develop a research program that mentors and trains his students, to the point where undergraduate students are first authors on his publications. He has also performed exemplary and meaningful service for the department, college, university, and community. Overall, Professor Kingsley is a valued member of the Department of Chemistry and Biochemistry, the college, and the university and we believe he will continue to excel in his teaching, research, and service. With enthusiasm and great pride, I recommend that Nicholas B. Kingsley be promoted to associate professor of chemistry, with tenure, Department of Chemistry and Biochemistry, College of Arts and Sciences.

Recommended by:

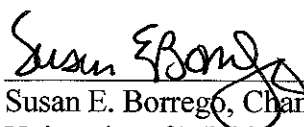


Susan Gano-Phillips, Dean
College of Arts and Sciences

Recommendation endorsed by:



Douglas G. Knerr, Provost and
Vice Chancellor for Academic Affairs



Susan E. Borrego, Chancellor
University of Michigan-Flint

May 2016