



COMMONWEALTH OF PENNSYLVANIA
Edinboro University of Pennsylvania
Edinboro, Pennsylvania 16444

Office of the President

October 3, 2005

TELEPHONE: 814-732-2711
FAX: 814-732-2880
INTERNET: Pogue@edinboro.edu

Mr. Brian Parker
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Mail contact #137572

HO

37-13277-06

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2005 OCT 07 11:12:52

RECEIVED

Dear Mr. Parker:

Dr. Eric Randall, Dean of the School of Science, Management and Technology, has nominated Dr. Naod Kebede, Assistant Professor of Chemistry, for the position of University Radiation Safety Officer. It is with pleasure that I accept the Dean's nomination and approve Dr. Kebede's appointment, pending your agency's review of his credentials. Dr. Kebede is an exceptionally well-qualified research/teaching scholar and will do an excellent job in this capacity.

Sincerely,

Frank G. Pogue
President

FGP/tam

Enclosure

- c: Dr. Pearl Bartelt, Provost and Vice President for Academic Affairs
- Dr. Eric Randall, Dean, School of Science, Management and Technology



EDINBORO UNIVERSITY
OF PENNSYLVANIA

Eric A. Randall, Ph.D.

Dean

School of Science, Management and Technology

Edinboro, PA 16444

(814) 732-2400

Fax: (814) 732-2422

erandall@edinboro.edu

October 3, 2005

Mr. Brian Parker
Nuclear Materials Safety Branch 2
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. Parker:

Following our phone conversation last week I contacted Dr. Naod Kebede to ask if he would stand for nomination as the Radiation Safety Officer to replace Dr. Martin Mitchell. With Dr. Kebede's agreement, I have forwarded his nomination to President Frank Pogue for his action.

Dr. Kebede is a tenured Associate Professor of Chemistry at this University. Previously, he served a post doctoral appointment at Johns Hopkins University as a Parke Davis fellow under the direction of John Toscano. He earned a Ph.D. in Organic Chemistry from Worcester Polytechnic and currently engages in an active research program in collaboration with colleagues both here and at Johns Hopkins. He has served as a Commonwealth/DEP RSO for the last two years and carries significant expertise to address the NRC RSO responsibilities. I urge you to carefully consider Dr. Kebede to occupy the Radiation Safety Officer position for Edinboro University. Please contact my office if additional information is desired.

Sincerely,

Eric A. Randall, Dean

EAR/tam

Attachment - Resume

c: Dr. Frank G. Pogue, President
Dr. Pearl Bartelt, Provost and Vice President for Academic Affairs
Prof. D. James Renn, Chair, Chemistry and Physics Department

Naod Kebede, Ph. D.

Rank/Administrative Title: Associate Professor

Chemistry Department

Tel.: 732-2564

nkebede@edinboro.edu

<http://scotschem.edinboro.edu/nk/index.html>

Education

The Johns Hopkins University	Postdoctoral fellow UNCF/Parke Davis fellow Prof. John P. Toscano	1998-2000
Worcester Polytechnic Institute	Ph.D. Organic Chemistry Advisor: Prof. James W. Pavlik	1993-1998
University of Gent, Belgium	M. S. Eremology. (Multi-disciplinary program in Desert Science)	1991-1993
Addis Abeba University, Ethiopia	B.S. Chemistry.	1982-1986

Research Experience

Edinboro University of PA, Edinboro, PA

2000-present

- Investigation of the synthesis and photochemical behavior of heterocyclic aromatic compounds.
- Determination of toxic chemicals in biological fluids: cyanide and thiocyanate.
- Development of databases containing arson accelerants found in the region using GC and GC-MS.
- Computational work to help the design of pyrazoles that can be incorporated in zeolites.
- Photochemistry of cyanopyridines (in collaboration with Prof. J. W. Pavlik of WPI).
- Lead content of Maple Syrup and sap.

Johns Hopkins University, Baltimore, MD

1998- 2000

Facilitate the design of better diazeniumdiolate derivatives to serve as pro-drugs for potential source of nitric oxides in biological systems.

Worcester Polytechnic Institute, Worcester, MA

1993-1998

Photochemical investigation heterocyclic aromatic compounds.

University of Gent, Gent, Belgium

1991-1993

Correlation between the neuro-toxin non-protein amino acid content of *Lathyrus sativus* (grass pea) and plant nutrients in the soil.

Addis Abeba University, Addis Abeba, Ethiopia

1986-1991

Isolation and characterization natural products from traditional medicinal plants.

Awards

- Edinboro University of PA Faculty Senate Research Award, March 2002.
- Edinboro University of PA Faculty Senate Research Award, March 2001.
- UNCF/Parke-Davis Postdoctoral Fellowship, September 1999.
- The Crimson and Grey Recognition Award, April 1997.
- NSBE "Torch Bearer, 1996-1997" February 1997.
- American Institute of Chemists Students Award, June 1996.
- Outstanding Teaching Assistant of the year at Worcester Polytechnic Institute, April 1996.
- Accounts of Chemical Research Student Award, March, 1994.

Teaching Responsibilities

Course	Semester(s) taught
CHEM140 General Chemistry	Fall 2000, 2001, 2003, Spring 2000, 2002, 2003 Summer 2003
CHEM 141 Bioorganic Chemistry lab	Summer 2004
CHEM 160 Principles of Chemistry I lab	Fall 2001

Teaching Responsibilities (cont.)

Course	Semester(s) Taught
CHEM 161 Principles of Chemistry II	Summer 2001.
CHEM 202 General Organic Chemistry:	Fall 2000, 2001, 2002, Spring 2001, 2002, 2003.
CHEM 220 Organic Chemistry I	Fall 2002, 2003, 2004.
CHEM 421 Advance Organic Chemistry	Fall 2001, 2004.
CHEM 490 Independent Study	Spring 2002, 2003, Fall 2002, 2003, 2004, Summer 2004.

Current Research Interest

- Development of analytical methods for trace material analyses

Current research topics include:

- Determination of cyanide and thiocyanate in aqueous solutions. The objective is to select the most sensitive and reliable method for this purpose and then to determine the amounts of these chemicals in bodily fluids. These chemicals, known to be poisonous, are found in significant amounts in the bodily fluids of smokers.
- Maple syrup lead (Pb ion) content analysis.
To determine the lead content of maple syrup that is produced in this area.
- The analysis involved detection of lead at various stages of maple syrup production.
Current research involves development of gas chromatographic database for common arson accelerants found in the Edinboro area. The chromatographic analyses involve development of optimal method(s) as well as creation of searchable data base.
- Reaction mechanism studies using computational chemistry.
Photochemical and photophysical properties of heterocyclic aromatic compounds.
Synthesis and photochemical investigations .
Design new or utilize published synthetic protocol for the preparation of pyrazoles.
Development of analytical methods for the determination of reactants/products identity and purity.
- Photochemistry of pyrazoles in confined media.
The medium of choice is zeolite. Zeolites have well defined pores of channels and cages. The cages can host chemicals that have specific size. Computational work gives insight on molecular dimensions of various pyrazoles that will best fit in these cages. The transparency of zeolites to ultraviolet radiation makes them ideal candidates for this study.

Research activities with undergraduate students at EUP

Jennifer Ayers: GC/MS method development for determination of arson accelerants.

Sean Walsh: GC method development for determination of arson accelerants and creation of searchable database.

Mandy Large: determination of cyanide and thiocyanate in aqueous solutions. The purposes was to select the most sensitive and reliable method. Then using the best method, determine the amounts of these chemicals in bodily fluids. These chemicals, known toxins, are found in significant amounts in bodily fluids of smokers.

Igor Sisov and Patrick Wishart: Synthesis of photochemistry of furoins. There are good candidates for the ever-growing demand to synthesize chemicals that can be transformed/ removed with the help of light.

Raymond Everett: Development of efficient method for the determination of cyanide.

Jayme Herron: Synthesis and photochemistry of pyrazole derivatives. A novel approach to the synthesis of pyrazole using over-the-counter chemicals.

Jeremy Jonas: Synthesis and photochemistry of pyridine derivatives.

Danielle Gambos and Jennifer Bartus: Computational chemistry using Hyperchem (software) to understand the reactivities of pyridine derivatives.

Anne Gerken and Laura Schirra: Spectroscopic behavior of Morin, a pentahydroxy flavone.

Laura Yurcak: Synthesis of isofalvone: a precursor for the synthesis of diphenyl pyrazoles.

Laura Schirra: Computational studies on the reactivities of nitrenes.

Diana Hoover and Rebecca Davis: GC method development for determination of arson accelerants and creation of searchable database.

Advising Responsibilities

- *Academic Advisor*, 16 chemistry majors.
- *Co-advisor to pre-pharmacy majors*.
- *Advisor: International Students Affiliation*, an organization for international students with membership of over 200.
- *Advisor: Phi Sigma Pi*, a national honors society.

Other Student-Related Activities

- Participated in the Faculty/Administration Volunteer Tutoring Program: 2000-present.
- Inside Track Mentor: 2000-2001.
- Support R. W. Bunsen Society activities: 2000-present.
- Accompanied the members of the International student affiliation to Washington DC and various local attractions.
- School of Science, Management and Technologies Living-Learning Community:
- Attended SM&T Living Learning Retreat Weekends, Allegheny State Park, NY: September 24-26, 2004, September 27-29, 2002, October 5-7, 2001, and October 5-7, 2000.

Service to the Department, the University, the Community

Service to the Chemistry Department

- Departmental APSCUF representative (2003-2004).
- Maintain departmental instruments.
- Acquired laboratory instrument donation from Abbot Bioresearch (formerly BASF): including Luminescence Spectrophotometer, UV-Vis Spectrophotometer, Savant Dryer, Molecular Devices plate reader, and HPLC pumps and detector as well as various pipettors and consumables.
- Acquired laboratory instrument from Albemarle Corp: an HP5890 series II gas chromatograph with TCD and FID detectors.
- Acquired research supply from WPI: carousel for photochemical reaction and various quartz photochemical reaction vessels.
- Applied and awarded Senate Research Grant for conducting preliminary research work in spring of 2001, 2002 and 2004.
- Department Committee member for redesigning chemical storage facilities.
- Submitted Grant Proposal to Dreyfus Foundation for Capillary Electrophoresis Instrument.
- Department chairperson election Committee: 2002 and 2004.
- Graduate School Coordinator: 2000-2001.
- Search Committee member, replacement Dr. Charles Sink, 2002.
- Search Committee member, chemical stock room manager, 2002.
- Department chemicals and supply ordering and stock room management, 2001-2002 and 2003-present.
- Took active role in the selection, purchase, installation and maintenance of new and used instruments 2001-present.

Service to the University:

- Attended a strategic planning Workshop (LASER) organized by ASSET, Inc. and NSRC, July 18-23, 2004.
- Attended APSCUF Leadership Workshop, May 18-20, 2003.
- CETP-PA (Collaborative for Excellence in Teacher Preparation, PA) Institute Chair, 2002-2004.
- CETP-PA course endorsement coordinator, spring-fall 2002.
- Advisor for the International Student Affiliation, 2001-present.
- Advisor for the honors society *phi sigma pi*, 2001-present.
- Member, Committee of Facts: August 2002-present.
- Member, Strategic Study Group on Facilities Communication, spring 2002.
- Member, Strategic Study Group on Grant writing, spring 2001.
- Volunteer, College Students Inventory, fall 2002.

Service to the University (cont.):

- Co-organized workshop for training on evaluation protocol of in-service teachers, fall 2002.
- Evaluator, for in-service junior field students fall 2001, spring 2002.
- Participant, Homecoming parade 2001 and 2002.
- Helped the in placement of students in graduate programs; Derek Armstrong University McGill University, Canada, and Leeann Young PSU.

Service to the Community:

- National Chemistry Week (Mall Shows), 2000, 2001, 2002, 2003, and 2004.
- Thanksgiving dinner for international students and others who are not able to go home.
- Snow fest 2002.
- Elementary school chemical demonstrations.
- Weekend of science 2001, 2002.
- Science Saturday 2001.
- University open house 2001, 2002.
- Saturday Workshops for area grade school teachers 2001, 2002, 2003.
- Welcomed new international students at New students orientation, and prepared barbeque outing at the Presque Isle (over 25 students attended each time) 2003 and 2004.

Professional Development Activities

Professional Associations Memberships

- The American Chemical Society.
- American Association for the Advancement of Sciences.
- Inter-American Photochemical Society.

Professional Service

- Editorial Advisory Board for the Chemical Society of Ethiopia.
- Judge at Penn state Behrend, Sigma Xi annual undergraduate conference.
- Member of the Faculty Development Program Committee (APSCUF).

Grants Received

- EUP University Faculty Senate Research Grant. Spring, 2001.
Synthesis and Photochemical investigation on pyrazoles.
- EUP University Faculty Senate Research Grant. Spring, 2002.
Synthesis and Photochemical investigation on pyrazoles in zeolite

Grants applied

- Camille and Henry Dreyfus Foundation. Co-submitted, "Capillary Electrophoresis Instrument for Undergraduate Labs." August 2001, *rejected*.
- Pennsylvania state system of higher education faculty professional development council grant, "Interzeolite Photochemistry: Pyrazole Derivatives" March 2003, *rejected*.

Professional Development Activities: Professional Training and Workshops

July, 2004	LASER Strategic planning workshop, Pittsburgh, PA.
August, 2003	CETP-PA 4 th annual summer conference, Edinboro, PA.
May, 2003	State APSCUF Leadership Workshop, Grantville, PA.
April, 2003	The second African Studies Conference: War, Refugees, and the Environment in Africa.
August, 2002	CETP-PA 3 rd annual summer conference, Millersville, PA
August 2002	Vertere Chemical inventory control system, EUP
June, 2002	Workshop on Material Characterization, Cleveland, OH
May, 2002	Thermo Finnigan GC and GC/MS Technical Seminar, Oakland, PA

Professional Development Activities: Professional Training and Workshops (cont.)

March, 2001	Center for Rural Pennsylvania Research Grant Workshop, Edinboro, PA
November, 2001	NSF SSHE CETP-PA level II supervision training, EUP.
August, 2001	CETP-PA second annual summer conference, Bloomsburg, PA
December, 2000	EUP Office of Sponsored Programs Grant Proposal Workshop. Edinboro, PA.

Lectures/ Presentation Given:

- “Vapor Phase Photochemistry of 3-Cyanopyridine: Deuterium Labeling Study” 15th Inter-American Photochemical society conference, Tempe, AZ, 2004.
- “Vapor Phase Photochemistry of Cyanopyridines” 14th Inter-American Photochemical society conference, Clearwater Beach, FL, 2003.
- Undergraduate Research Opportunities, SM&T Living-Learning Retreat, Salamanca, NY, 2002.
- “Nitric Oxide Delivery”, Erie Section of the American Chemical Society, Mercyhurst College, Erie, 2001
- “Color Writing” a presentation at a mini-conference on Constructivist Teaching of Math and Science for K-8th grade teachers, Edinboro University of PA, Edinboro, 2002.
- “Do’s and Taboos Around the World” World Cultures Week, Edinboro University of PA, February 19, 2002.
- Undergraduate Research Opportunities. SM&T Living-Learning Retreat, Salamanca, NY, 2000.

Recent Scientific Lectures Attended

- January 1-4 , 2004 Inter-American Photochemical society 15th Conference, Tempe, AZ.

Seminar Series:

EUP Student Presentations:

September, 2004	Dianna Hoover, “Understanding the Mechanism of p-Aminophenol in vitro Toxicity” EUP, Edinboro, PA.
September, 2004	Kevin Jesteadt, “Water and Coal Analyses at a Small Commercial Laboratory”, EUP, Edinboro, PA.
April, 2004	Tristan Schoiack, “Chemically Cross-Linked Polycyclooctene: Synthesis, Characterization, and Shape Memory Behavior”.
April, 2004	Diana Hoover, “Atomic Force Probes Go Electrochemical”.
April, 2004	Rebecca Davis, “Lead Isotope Determination for Forensic Analysis of Military Small Arms Projectiles”.
April, 2004	Russell Robinson, “Two Photon Fluorescence of Single Semiconductor Quantum Rods: Direct Observation of Highly Polarized Nonlinear Absorption Dipole”.
March, 2004	Neil Foriska, “Polysaccharides Grafted with Polyesters: Novel Amphiphilic Copolymers for Biomedical Applications”.
March, 2004	Anita Hughes, “The Rapid Analysis of 3,4-Methylenedioxymethamphetamine: A Comparison of Nonaqueous Capillary Electrophoresis/Fluorescence Detection with GC/MS”.
March, 2004	Tom DeBaise, “A Proteomic View of the Plasmodium Falciparum Life Cycle”.
March, 2004.	Tom DeBaise, “Structure and Reactivity of Organic Intermediates as Revealed by Time-Resolved IR Spectroscopy”.
February, 2004	•Russell Robinson, “A Simple Synthesis of 7,4’-6-methoxyisoflavone, Glycitein, the Third Soybean Isoflavone”.
February, 2004.	Tristan Schoiack, “Aptamer-Based Colorimetric Probe for Cocaine,”
February, 2004.	Diana Hoover, “Use of Remote NQR Spectroscopy for the Detection of Explosives,”
February, 2004.	Rebecca Davis, “Structural Insights into Peptide Bond Formation”
February, 2004.	Anita Hughes, “The Differentiation of Embryonic Stem Cells to Insulin-Secreting Structures Similar to Pancreatic Islets,”

EUP Student Presentations (Cont.)

- February, 2004. Neil Foriska, "A Talk on the Synthesis and Characterization of Alternating and Multiblock Copolymers from Ethylene and Cyclopentene,"
- September, 2003 Lindsey Metzger, "So You Want to Be a Forensic Analyst" EUP, Edinboro, PA.
- October, 2003 JoAnn Kennedy, "Bring 'Em Home, or Forensics Hawaii Style" EUP, Edinboro, PA
- October, 2003 Jayme Herron, "Quality Control in the Plastics Industry" EUP, Edinboro, PA.
- September, 2003 Dan Wolfe, "The Daily Life of a Deputy Coroner" EUP, Edinboro, PA.
- September, 2003 Diana Hoover, "Synthesis of *p*-Substituted Benzylideneindene. Antiaromaticity in Indenylindene" EUP, Edinboro, PA.
- February, 2003 Juan M. Vargas, "Chemistry of Diazeniumdiolates and Its Possible Pharmacological Applications" EUP, Edinboro, PA.
- March, 2003 Michael Krebs, "A Study of a Molecular Metalloid Ga₁₉ Cluster Anion" EUP, Edinboro, PA.
- April, 2003 Michael Krebs, "Gene Expression Throughout the Life of a Fruit Fly" EUP, Edinboro, PA.
- April, 2003 Juan Vargas, "Scanning Ultraviolet Two-Step Laser Mass Spectroscopy of Polycyclic Hydrocarbon Distributions on Creosote-Contaminated Soil Particles" EUP, Edinboro, PA.
- April, 2003 Eric Bailey, "Investigating Cyanide and Thiocyanate Levels in Blood and Saliva of Humans" EUP, Edinboro, PA.
- April, 2003 Sean Walsh, "The Application of Science to the Law," EUP, Edinboro, PA.
- September, 2002 Mandy Large "Death Investigation" EUP, Edinboro, PA.
- September, 2000 Yukiko Sakakibura, "Monofunctional Electron Donors for Die Attachment Application." EUP, Edinboro, PA.

Other Presentations:

- October, 2004 Albert Sacco, Jr. (Northeastern University), "Be an Astronaut: See the World-What it's Really Like", ACS speaker series, Allegheny College, Meadville, PA
- October, 2004 Todd D. Zakrajsek (Central Michigan University), "Structuring Learning Environments to Maximize Student Learning", Edinboro University of PA.
- February, 2004 Arlene Kray (Vanderbilt University), "Nuclear Factor- κ B-Mediated Responses to Cellular Stress," Edinboro University of PA.
- April, 2004 L. Dee Fink (University of Oklahoma), "So, What Is Good Teaching Anyway?" 7th Annual Jim Miller Celebration of Teaching, Edinboro University of Pennsylvania.
- September, 2003 Lindsey Metzger, "So You Want to Be a Forensic Analyst" EUP, Edinboro, PA.
- October, 2003 Roald Hoffman (Nobel Laureate, Cornell University), "Chemistry Imagined", Allegheny College Lord Lecture 2003 series.
- October, 2003. Robert Dixon (Southern Illinois University at Edwardsville), "Synthesis of Substituted 2,2'-Bipyridines as Potential Ligands or Chemical Warfare Agents and Insecticides"
- March, 2003 Phil Garner (Case Western Reserve University), "The β -Helical Peptide Nucleic Acid Concept. A New Twist on Antisense Drug Design?"
- April, 2003 Brian Hnatkovich (EUP alumnus, Biochemistry Graduate Student, Penn State), "Binary Piccolo: Characterization and Crystallization"
- April, 2003. James E. Zull (Case Western Reserve University), "Does Neuroscience Research Have Anything to Offer the Teacher?" 6th Annual Jim Miller Celebration of Teaching.
- October, 2002 Gelnn Roy, "In Vitro Taste Sensor" Kent State-Ashtabula.
- September, 2002 Lee Marek "Lee Marek on the Late Show with David Letterman" EUP, Edinboro, PA
- October, 2001 Jeff Brown, "Industrial Research at Dupont from Circuit Board Manufacture to Applications of Spandex." EUP, Edinboro, PA.

Other Presentations (cont.):

- April, 2001 Dr. Brian Moore, "Monomolecular Films in Nanoscience and Nanotechnology."
PSU, Erie, PA.
- April, 2001 Dr. Craig Cameron, "Insight into the Mechanism of Action of Ribovirin from
Studies with Poliovirus and Its Polymerase." EUP, Edinboro, PA.

Funding

- EUP University Faculty Senate Research Grant, Edinboro University of Pennsylvania
Spring, 2002
- EUP University Faculty Senate Research Grant, Edinboro University of Pennsylvania
Spring, 2001
- In kind donation from Albemarle Corp, Albemarle, Baton Rouge, LA
August 2002
- In kind donation from Abbot Bioresearch, Abbot Bioresearch, Worcester, MA
December 2001

LIST OF PUBLICATIONS

1. Pavlik, J. W.; St. Martin, H.; Lambert, K.; Lowell, J.; Tsefrikas, V.; Eddins, E.; Kebede, N.
"Photochemistry of 4- and 5-Phenyl Substituted Isoxazoles" *J. Heterocyclic Chem.* **2004**. *In press*.
2. Srinivasan, A.; Kebede, N.; Saavedra, J. E.; Nikolaitchik, A.V. Brady, D.A.; Yourd, E.; Davies, K.
M.; Keefer, L. K.; Toscano, J. P. *J. Am. Chem. Soc.* **2001**, *123*, 5465-5472.
3. Pavlik, J. W.; Kebede, N.; Thompson, M.; Bird, N. P.; Day, A. C.; Barltrop, J. A. *J. Am. Chem.
Soc.* **1999**, *121*, 5666-5673.
4. Pavlik, J. W.; Kebede, N. *J. Org. Chem.* **1997**, *62*, 8325-8334.
5. Kebede, N.; Pavlik, J. W. *J. Heterocyclic Chem.*, **1997**, *34*, 685-686.
6. Pavlik, J. W.; Kebede, N.; Bird, N. P.; Day, A. C.; Barltrop, J. A. *J. Org. Chem.* **1995**, *60*, 8138-
8139.
7. Khan, J. K.; Kebede, N.; Kuo, Y.H.; Lambein, F. *J. Chromatography, A.* **1994**, *687*, 113-119.
8. De Bruyn, A.; Becu, C.; Lambein, F.; Kebede, N.; Abegaz, B.; Nunn, P. B. *Phytochem.* **1994**, *36*,
85-89.
9. Lambein, F.; Haque, R.; Khan, J. K.; Kebede, N.; Kuo, H.Y. *Toxicon*, **1994**, *32*, 461-466
10. Khan, J. K.; Kebede, N.; Lambein, F.; De Bruyn, A. *Anal. Biochem.* **1993**, *308*, 237-240.
11. Tekel Haimanot, R.; Abegaz, B. M.; Wuhib, E.; Kassina, A.; Kidane, Y.; Kebede, N.; Alemu, T.;
Spencer, *Nutr. Res.* **1993**, *13*, 1113
12. Abegaz, B.; Kebede, N.; Asmellash, S. In: *The Grass Pea; Threat and Promise* (P.S. Spencer ed.)
1989, Third World Medical Research Foundation, New York, 128-132.