

THOMAS H. LANE

SUMMARY OF QUALIFICATIONS

July 2010 – February 2013: *Chief Academic Officer and Vice-president of Instruction and Learning Services, Delta College, University Center, MI*

- Ranking academic responsible for leading, developing, prioritizing, and executing the College's academic priorities to help assure student success.
- Plan, organize, direct, administer, review, and evaluate the College's assessment programs.
- Assure student success through strategic partnerships, articulation, alignment, curriculum design and development.

2008 – 2010: *Presidential Succession [President 2009] and member of the Board of Directors for the American Chemical Society, the largest scientific society in the world.*

- The public face of chemistry.
- Building new STEM based educational opportunities for students.
- Building diversity in the STEM disciplines.
- Oversight for the operations of a two thousand employee global organization with physical locations in Washington DC and Columbus Ohio.
- Fiduciary responsibility for a \$600 million annual budget.

1974 – May 2009: *Dow Corning Corporation, Midland, MI
Various positions including Senior Research Scientist, Vice President Dow Corning Foundation, and Director, Global Science and Technology Outreach*

- Ranking scientist responsible for leading the Corporation into new technology areas to help ensure the Corporation's continued success and growth.
- Managed large R&D groups and multinational teams.
- Managed global sponsored research programs, which included over sixty universities.
- Served as the Corporation's chief chemist during the breast implants controversy.
- Achieved the highest scientific rank within the Corporation for technical contributions in the areas of interfacial science, scientific computing, and in the biology and biotechnology of silicon. These accomplishments have been internationally recognized and documented.

AWARDS AND RECOGNITION

- *Doctor of the University [D.Univ, honoris causa], Open University, United Kingdom presented in Versailles, France 2011*
- *Central Michigan University Distinguished Alumni Award (2002)*
- *Purdue University Distinguished Alumni Award (2009)*
- *Lynn Heatley Award for Distinguished Service, Delta College, University Center, Michigan, USA (1986)*
- *Fellow, Royal Society of Chemistry (FRSC) (Elected, 1994)*
- *Chartered Chemist (CCHEM), The Royal Society of Chemistry (Elected, 1985)*
- *Chartered Scientist (CSci), The Science Council (UK) (Elected, 2004)*
- *Fellow, American Chemical Society (ACSF) (Elected 2011)*
- *Outstanding Service to the American Chemical Society (1997)*
- *Midland Section American Chemical Society Award for Outstanding Achievement and Promotion of the Chemical Sciences (1991)*
- *National ACS's 125th Anniversary Salutes to Excellences Award (2001)*
- *Sequoia Fellow, American Indian Science and Engineering Society*
- *Friend of the Society & Life Member, Society for the Advancement of Hispanic/Chicanos & Native Americans in Science*
- *Scientist Emeritus Dow Corning Corporation*
- *Council on Chemical Research Distinguished Lecturer.*
- *Industrial Research Institute Visiting Scientist (1986-87).*
- *Certified Professional Chemist, American Institute of Chemists (1979-95)*
- *NOBCCChE Service Award for outstanding contributions to the National Secondary Education Science Program (2011)*
- *Jerome L. Yantz, Partner in Education Award (2007)*
- *Dr. Martin Luther King, Jr. Recognition Award (1995)*
- *Distinguished Leadership Award (1988)*
- *International Leaders in Achievement Award, Cambridge, England (1987)*

ACADEMIC EXPERIENCES

- *Delta College, University Center, MI USA*
Chemistry Adjunct, approximately fall 1979 until 1987
Trustee, Delta College, 2000- 2010
Chairman of the Board of Trustee, 2005-06
- *Central Michigan University*
External Research Director for M.Sc. chemistry students,
1989- present
- *Medical College of Virginia at VCU*
Adjunct Professor in Pharmacology, Toxicology and
Chemistry, 1995- 2002
- *Open University, Milton Keynes, England*
External Research Director, 1991- present
Professor of Chemistry (Hon.), 1995- present
- *Advisory boards or panels*
Purdue University (Chair, chemistry advisory board)
Saginaw Valley State University
Kettering University
- *Professional research collaborations*
Over 65 universities (international)
Over 10 national and international government laboratories
US military laboratories (Department of Defense secret
clearance, 1992-2002)

EDUCATION

1974, B.Sc. in Chemistry with Honors in Chemistry, Purdue University, West Lafayette, IN, USA

1979, M.Sc. in Physical-Organic Chemistry, Central Michigan University, Mt. Pleasant, MI,

1990, Ph.D. in Physical-Organosilicon Chemistry, The Open University, Milton Keynes, England

1991, Harvard Business School, IRI Research Management Program

MEMBERSHIPS

Alpha Chi Sigma, American Chemical Society, Royal Society of Chemistry, Sigma Xi; The Research Society of North America, American Association for the Advancement of Science, American Indian Science and Engineering Society (Sequoia Fellow), Society for the Advancement of Hispanic/Chicanos & Native Americans in Science (Life Member/Friend of the Society), Rotary International

BOOKS AND BOOK CHAPTERS (RECENT, 2004 – PRESENT)

1. T. H. Lane, "Silicone Chemistry," Encyclopedia of Chemistry, The Macmillan Reference USA – Gale Group, 2004
2. Sahoo, B., Brandstadt, K.F., Lane, T.H., Gross, R.A., "Sweet Silicones": Biocatalytic Reactions to form Organosilicon Carbohydrate Macromers," Biocatalysis in Polymer Science II, Gross, R.A., Cheng, H.N. Ed., ACS Symposium Series, American Chemical Society, Washington, D.C., 2005.
3. Bassindale, A.R., Brandstadt, K.F., Lane, T.H., Taylor, P.G., "Biocatalysis of Siloxane Bonds," Biocatalysis in Polymer Science II, Gross, R.A., Cheng, H.N. Ed., ACS Symposium Series, American Chemical Society, Washington, D.C., 2005.
4. Smith, Wyatt C., Whited, Gregory M., Lane, Thomas H., Sanford, Karl, McAuliffe, Joseph C., "Enzymatic Dihydroxylation of Aryl Silane," Gross, R.A., Cheng, H.N. Ed., ACS Symposium Series, American Chemical Society, Washington, D.C., 2008.

ISSUED U.S. PATENTS (RECENT, 2004 – PRESENT)

1. US7,078,519 (July 18, 2006) "Enzyme catalyzed organosilicon carbohydrates."
2. US 7,205,373 (April 17, 2007) "Enzyme catalyzed organosilicon esters and amides."
3. US 7,264,728 (September 4, 2007), "Method of separating components in a sample using silane-treated silica filter media."
4. US 7,374,684 (May 20, 2008), "Method of separating components in a sample using silane-treated silica filter media."
5. US 7,455,998 (November 25, 2008), "Methods for forming structurally defined organic molecules."
6. US 7,850,012 (December 14, 2010), "Silane-treated silica filter media."
7. US 8,263,153 (September 11, 2012), "Method of preventing or reducing haze in a beverage using a silane-treated silica filter media."

PCT PUBLICATIONS (RECENT, 2004 - PRESENT)

1. Gibson, Gary L.; Hayes, Keith Quentin, II; Heng, Meng H.; Kollar, Csilla; Lane, Thomas H.; Revis, Anthony; Steele, Landon M. Method of separating components in a sample using silane-treated silica filter media. PCT Int. Appl. (2004), 72 pp. CODEN: PIXXD2 WO 2004041401 A1 20040521 CAN 140:420369 AN 2004:412841
2. Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Gross, Richard A. Enzyme-catalyzed formation of organosilicon carbohydrates. PCT Int. Appl. (2004), 30 pp. CODEN: PIXXD2 WO 2004016626 A2 20040226 CAN 140:200287 AN 2004:162700
3. Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Gross, Richard A. Enzyme catalyzed organosilicon esters and amides and preparation method. PCT Int. Appl. (2004), 61 pp. CODEN: PIXXD2 WO 2004016625 A2 20040226 CAN 140:218590 AN 2004:162699
4. Gibson, Gary L.; (Midland, MI) ; Hayes, Keith; (Midland, MI) ; Heng, Meng H.; (Belmont, CA) ; Kollar, Csilla; (Midland, MI) ; Lane, Thomas H.; (Midland, MI) ; Revis, Anthony; (Freeland, MI) ; Steele, Landon M.; (Redwood City,

- CA); Method of separating components in a sample using silane-treated silica filter media; United States Patent Application 20040211724; October 28, 2004.
5. Gibson, Gary L.; Hayes, Keith; Heng, Meng H.; Kollar, Csilla; Lane, Thomas H.; Revis, Anthony; Steele, Landon M. Method of separating components in a sample using silane-treated silica filter media. U.S. Pat. Appl. Publ. (2005), Cont.-in-part of U.S. Ser. No. 677,404. CODEN: USXXCO US 20050029195 A1 20050210 AN 2005:122437 CAPLUS
 6. Bott, Richard R.; Brandstadt, Kurt Friedrich; Kollar, Csilla; Lane, Thomas Howard; Liles, Donald Taylor; Saldjeno, Mae; Thomas, Xavier Jean-Paul. Preparations for topical application and methods of delivering an active agent to a substrate. PCT Int. Appl. (2005), 53 pp. CODEN: PIXXD2 WO 2005044242 A1 20050519 AN 2005:426428 CAPLUS
 7. Forchhammer, Nynne M.; Fryksdale, Beth; Hayes, Keith; Kollar, Csilla; Lane, Thomas H.; Revis, Anthony. Method of preventing or reducing haze in a beverage using silane-treated silica filter media. PCT Int. Appl. (2005), 55 pp. WO 2005117616
 8. Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Saam, John C.; McAuliffe, Joseph C. Methods for forming structurally defined organic molecules. U.S. Pat. Appl. Publ. (2005), 43 pp. CODEN: USXXCO US 2005196849 A1 20050908 CAN 143:265600 AN 2005:983702
 9. Bott, Richard R.; Brandstadt, Kurt F.; Kollar, Csilla; Lane, Thomas H.; Liles, Donald T.; Saldjeno, Mae; Thomas, Xavier J.; Murphy, Kevin P.; Schalaus, Gerald K. Preparations for topical application and methods of delivering an active agent such as protein to a substrate. U.S. Pat. Appl. Publ. (2006), 32 pp., Cont.-in-part of Appl. No. PCT/US2004/35686. CODEN: USXXCO US 2006083776 A1 20060420 CAN 144:419683 AN 2006:365371
 10. Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Gross, Richard A. Enzyme-catalyzed organosilicon esters and amides. US 20070021578
 11. Bott; Richard R.; Brandstadt, Kurt Friedrich; Kollar, Csilla; Lane; Thomas Howard; Liles, Donald Taylor; Saldjeno, Mae; Thomas, Xavier Jean-Paul; "Preparation for Topical Application and Methods of Delivering an Active Agent to a Substrate," US 20070218115 (September 20, 2007).
 12. GIBSON; Gary L.; Hayes; Keith; Heng; Meng H.; Kollar; Csilla; Lane; Thomas H.; Revis; Anthony; Steele; Landon M, "Method of Separating Componets in a Sample Using Silane-Treated Silica Filter Media," US 20070267349 (November 22, 2007)
 13. Lane, Thomas H.; Liotta, Charles Leonard; Brandstadt, Kurt F.; Hand, James H.; Charney, Reagan; Bommarius, Andreas Sebastian; Eckert, Charles Alan; Polizzi, Karen Marie; Pollet, Pamela; Hallett, Jason Patrick. Organosilicon-functional phase transfer catalysts. PCT Int. Appl. (2008), 32pp. WO 2008033908 A2 20080320 CAN 148:381832 AN 2008:353271
 14. GIBSON; Gary L.; Hayes; Keith; Heng; Meng H.; Kollar; Csilla; Lane; Thomas H.; Revis; Anthony; Steele; Landon M, "Silane-Treated Silica Filter Media," US 20080185333 (August 7, 2008)
 15. Forchhammer; Nynne M.; Fryksdale; Beth; Hayes; Keith; Kollar; Csilla; Lane; Thomas H; Revis; Anthony; "Method of preventing or reducing haze in a beverage using silane-treated silica filter media," US 20090214701 (August 27, 2009).

16. Brandstadt, Kurt F.; Hand, James H.; Lane, Thomas H.; Liotta, Charles Leonard; Eckert, Charles Alan; Bommarius, Andreas Sebastian; Charney, Reagan; Hallett, Jason Patrick; Polizzi, Karen Marie; Pollet, Pamela; "Organosilicon-functional phase transfer catalysts;" US 20100197892 (August 5, 2010)

JOURNAL AND CONFERENCE PUBLICATIONS (RECENT, 2004 – PRESENT)

1. Bassindale, A.R., Brandstadt, K.F., Lane, T.H., Taylor, P.G., "Siloxane Biocatalysis," Polymer Preprints 2004, 45(1), 614.
2. Bassindale, A.R., Lane, T.H., Taylor, P.G., Alvarez, K. "All Acid Catalysts Used in Ring Opening Polymerization of Cyclosiloxanes are not Created Equal," Polymer Preprints 2004, 45(1), 568.
3. Sahoo, B., Brandstadt, K.F., Lane, T.H., Gross, R.A., "Sweet Silicones": Biocatalytic Reactions to form Organosilicon Carbohydrate Macromers," Organic Letters, 2005, 7(18), 3857
4. Lane, TH and Curtis, J., "Dissolving Shell Mystery Solved," Journal of Plastic and Reconstructive Surgery, 2005, 115(5), 1442-1445
5. McAuliffe, Joseph C.; Smith, Wyatt C.; Bond, Risha; Zimmerman, Jasan; Ward, Donald; Sanford, Karl; Lane, Thomas H., "Template-driven enzyme immobilization: development of a rapid and practical process inspired by Diatoms," Polymeric Materials: Science and Engineering (2005), 92 641.
6. Lane, Thomas H., "Comments regarding platinum in silicone breast implants," Analytical Chemistry (2006) 78(15), 5607-08.
7. Kollar, C., Brandstadt, K.F., Crissman, J.W., Klykken, P.C., Lane, T.H., Thomas, X., Whitaker, G.S., Bott, R., Ganshaw, G., Gebert, M., Mazeaud, I., Saldajeno, M., Nanney, L.B., Davidson, J.M., "A Silicone Based Controlled Release Device for Accelerated Proteolytic Debridement of Wounds," Wound Repair and Regeneration, (2007) 15(2), pp227-239
8. Lane, Thomas H., "Food for Thought," J. Chem. Ed., (2007), 84 (10), 1598
9. Curtis, J., Lane, T. H., Haggard, W. O., "Regarding Oxidation of Silicone Elastomer Finger Joints," The Journal of Hand Surgery, (2007), 32A(10), 1644-45.
10. Lane, Thomas H., "My Favorite Element: Silicon," J. Chem. Ed. (2009), 86(10), 1132.

PRESENTATIONS (RECENT, 2004 – PRESENT)

1. "Silicon-based Pharmaceuticals," T. H. Lane (Invited), TAB at MIT, Cambridge, MA (January 2004).
2. "New Technologies," T. H. Lane and J. M. Gilson (Invited), Corning Shareholder Meeting, New York, N.Y., (February 2004)
3. "Math and Science Education," T. H. Lane (Invited), Delta College, University Center, MI (February 2004).
4. "Silicon Biotechnology," T. H. Lane (Invited), University of Texas, Austin, TX (February 2004).
5. "Siloxane Biocatalysis," Bassindale, A.R., Brandstadt, K.F., Lane, T.H., Taylor, P.G., National ACS Meeting (March 2004)
6. "All Acid Catalysts Used in Ring Opening Polymerization of Cyclosiloxanes are not Created Equal," Bassindale, A.R., Lane, T.H., Taylor, P.G., Alvarez, K., National ACS Meeting (March 2004)

7. "Siloxane Biocatalysis," Bassindale, A.R., Brandstadt, K.F., Lane, T.H., Taylor, P.G., Silicon Symposium, Philadelphia, Pennsylvania (May 2004).
8. "Sweet Silicones": Biocatalytic Reactions to form Organosilicon Carbohydrate Macromers," Sahoo, B., Brandstadt, K.F., Lane, T.H., Gross, R.A., Silicon Symposium, Philadelphia, Pennsylvania (May 2004).
9. "An Enzyme-Catalyzed Reaction at Silicon," Brandstadt, K. and Lane, T. H. (Invited), Biocatalysis Gordon Research Conference, Meriden, New Hampshire (July 2004).
10. "Ion Channel Switch Based Biosensors for Defense Applications," Todd Becker, T. H. Lane, Q. Lee, Kevin Ryan; U. S. Army Medical Research and Material Command, Washington D. C., December 2004.
11. "Ion Channel Switch Based Biosensors for Defense Applications," Todd Becker, T. H. Lane, Q. Lee, Kevin Ryan; Naval Medical Research Center and Walter Reed Army Institute of Research, Washington D. C., December 2004.
12. "Numerically Intensive Technical Computing," T. H. Lane (invited), Technical Advisory Board, Midland, MI (January 2005).
13. "The History of Silicon, Silica, and Silicone," T. H. Lane (invited), Florida International University, (January 20, 2005)
14. "Biocatalysts at Silicon," T. H. Lane (invited), Florida International University, (January 21, 2005).
15. "Summer Interns and Silicon Chemistry," T. H. Lane (invited), Florida International University, (January 21, 2005).
16. "Nano-delivery Systems, Enzymes, and Silicon Biotechnology," Karl Sanford, T. H. Lane, Rich LaDuca, Dave Cornelius, P&G (January 2005).
17. "Transitions and the Factors Affecting the Same," T. H. Lane (Invited), League for Innovation, Scottsdale, AZ (February 2005)
18. "Life – it is a People Business," T. H. Lane (Invited), Special Lecture MTC, (February 2005).
19. "Mathematics, Alice in Wonderland, and Life," Thomas H. Lane (Invited – Keynote), Michigan Math Prize Awards Dinner, Delta College, University Center, MI (February 2005).
20. "Template-driven enzyme immobilization: Development of a rapid and practical process inspired by diatoms," Joseph C. McAuliffe, Wyatt C. Smith, Risha Bond, Jasan Zimmerman, Donald E. Ward, Karl Sanford, and Thomas H. Lane, National ACS Meeting (March 2005)
21. "Photo, Nano, Bio: Radical technologies reshaping the chemical industry," Thomas H. Lane (Invited), Presidential Event – National ACS Meeting (March 2005).
22. "Organosilicon Chemistry," Thomas H. Lane (invited), Midland, MI (April 2005)
23. "Careers in Chemistry," Thomas H. Lane (Invited), Midland, MI (April 2005)
24. "Commencement Address," Thomas H. Lane (Invited) University Center, MI (April 2005)
25. "Keynote, Welcoming Address," Thomas H. Lane (Invited), Bay Area Scholarship Program, Bay County, MI (May 2005).
26. "Silicone-Based Delivery Systems for Enzymatic Debridement," Kollar, C., Bott, R., Brandstadt, K.F., Crissman, J.W. Klykken, P.C., Liles, D.T. Murphy, K.P., Saldajeno, M., Thomas, X., Whitaker, G.S., Lane, T.H., Dow Corning Technical Conference (May 2005).

27. "Feasibility of a Drop-In Bioprocess for Manufacture of Short-Chain Diol (DC4-7041)," Brandstadt, K.F., Mclvor, M.L., Hand, J.H., Smith, W.C., Lane, T.H., Dow Corning Technical Conference (May 2005).
28. "The Design of Selective Capture Filter Aids for Beer Flavor Stabilization Using Silane Treated Media," Revis, A., Mclvor, M., Brothers, H., Lane, T., Gibson, G., Matherly, J., Tabler, R., Waldron, J, Dow Corning Technical Conference (May 2005).
29. "The Assessment of Beer Flavor Collateral Damage When Extracted With Silane Treated Media," Revis, A., Mclvor, M., Brothers, H., Lane, T., Gibson, G., Matherly, J., Tabler, R., Waldron, J., Forchhammer, N., Fryksdale, B., Gastel, F., Technical Conference, (May 2005).
30. "Concerted enzyme immobilization within polycation-templated silica," McAuliffe, Joseph C.; Smith, Wyatt C.; Ward, Donald E.; Sanford, Karl; Lane, Thomas H., 230th ACS National Meeting, Washington, DC (Aug. 28-Sept. 1, 2005)
31. "Inspired by Nature: Biocatalyzed Siloxane Bond Formation," Bassindale, A.R., Brandstadt, K.F., Lane, T.H., Taylor, P.G., The 14th International Symposium on Organosilicon Chemistry (ISOSXIV) & 3rd European Organosilicon Days, Wurzburg, Germany (August 2005).
32. "Bioprocessing – Methyl Chloride," T. H. Lane and J. Hand; TAB, Midland, MI (September 2005)
33. "Photo, nano, bio; Radical Technologies Shaping Our Industry," Thomas H. Lane (Invited Keynote) International Symposium on Chemical Process Industries, Houston, TX (October 2005)
34. "A silicone based controlled release dressing for accelerated proteolytic debridement," L. Nanney, J. Davidson, J. Crissman, P.Klykken, X.Thomas, G. Whitaker, T. Lane, K. Bradstadt, C. Kollar, M. Saldajeno, G. Ganshaw, M. Gebert, I. Mazeaud, R. Bott, Symposium on Advanced Wound Care (12/09/05).
35. "Potential Food and Beverage Opportunities for Capture Plus" T. Lane, A. Revis, J. Waldron, J. Matherly, G. Gibson, Genencor, Rochester N.Y., (February 24, 2005)
36. "Role of Science Education," T. H. Lane (invited), Delta College, January 2006
37. "Wound Management," C. Kollar and T. H. Lane, TAB, Midland, MI (January 2006)
38. "Sugar Siloxanes," E. Joffre and T. H. Lane, TAB, Midland, MI (January 2006)
39. "Enzymatic Reactions at Silicon," K. F. Brandstadt and T. H. Lane, TAB, Midland, MI (January 2006)
40. "Viral Panning and Phage Display," R. Malczewski and T. H. Lane, TAB, Midland, MI (January 2006)
41. "A Silicone Based Controlled Release Dressing for Accelerated Proteolytic Debridement," Brandstadt, K.F., Crissman, J.W., Klykken, P.C., Kollar, C., Lane, T.H., Thomas, X., Whitaker, G.S., Bott, R., Ganshaw, G., Gebert, M., Mazeaud, I., Saldajeno, M., Nanney, L.B., Davidson, J.M., Particle 2006 Conference, Berlin, Germany, February 2006.
42. "Ten things to think about in this crazy mixed up place we call the chemical enterprise," T. H. Lane (Invited Keynote), National ACS Meeting, Atlanta, GA (March 2006).
43. "Education, Life, and Learning," Lane, Thomas H. (Invited Keynote), Delta College, April 2006.

44. "New Directions; The Biology of Silicon," Lane, T. H., Technical Advisory Board, May 2006
45. "Life-long Learning," Lane, T. H. (Keynote), Bay Area Foundations and Scholarships, Bay City, MI, May 2006
46. "Biocatalytic Transformation of Aryl Silanes using Aromatic Dioxygenases," Whited, G.M., Smith, W., McAuliffe, J.C., Lane, T.H., and Sanford, K., ACS Central Regional Meeting & 39th Silicon Symposium, Frankenmuth, MI, (May 2006).
47. "Chemoenzymatic Synthesis of Epoxy-Functional Silanes and Siloxanes," McIvor, M.L., Brandstadt, K.F., Hand, J., Vo, H.X., Lane, T.H., Takehara, D.K., van Gastel, F., Sala, R., ACS Central Regional Meeting & 39th Silicon Symposium, Frankenmuth, MI, (May 2006).
48. "Silicone Based Controlled Release Dressing for Accelerated Proteolytic Debridement," Kollar, C., Brandstadt, K.F., Crissman, J.W., Klykken, P.C., Lane, T.H., Thomas, X., Whitaker, G.S., Bott, R., Ganshaw, G., Gebert, M., Mazeaud, I., Saldajeno, M., Nanney, L.B., Davidson, J.M., ACS Central Regional Meeting & 39th Silicon Symposium, Frankenmuth, MI, May 2006.
49. "Acid Catalysed Interconversion of Cyclosiloxanes," Alvarez, Khristopher E.; Taylor, Peter G.; Lane, Thomas H.; Bassindale, Alan R., 38th Central Regional Meeting of the American Chemical Society, Frankenmuth, MI, (May 16-20, 2006)
50. "Conjugation of siloxane-containing compounds with amino acids, peptides, and sugars," Polizzi, Karen M.; Hallett, Jason P.; Charney, Reagan; Donaldson, Megan; Pollet, Pamela; Bommarius, Andreas; Eckert, Charles; Liotta, Charles; Hand, James; Brandstadt, Kurt; Lane, Thomas, 38th Central Regional Meeting of the American Chemical Society, Frankenmuth, MI, (May 16-20, 2006),
51. "Silicone Based Controlled Release Dressing for Accelerated Proteolytic Debridement," Kollar, C., Brandstadt, K.F., Crissman, J.W., Klykken, P.C., Lane, T.H., Thomas, X., Whitaker, G.S., Bott, R., Ganshaw, G., Gebert, M., Mazeaud, I., Saldajeno, M., Nanney, L.B., Davidson, J.M., Symposium on Wound Healing, Orlando, FLA (May 2006).
52. "International Competitiveness and Saginaw," Lane, Thomas H., 2006-07 All Hands Meeting – Saginaw Public School, Saginaw, MI (September 2006)
53. "Conjugation of siloxane-containing compounds with amino acids, peptides, and sugars," Polizzi, Karen M.; Hallett, Jason P.; Charney, Reagan R.; Donaldson, Megan; Pollet, Pamela; Brandstadt, Kurt F.; Lane, Thomas H.; Eckert, Charles A.; Liotta, Charles L.; Bommarius, Andreas S., 232nd ACS National Meeting, San Francisco, CA, (Sept. 10-14, 2006)
54. "Midland Section – Our impact on math/science education," Lane, Thomas H., 232nd ACS National Meeting, San Francisco, CA, (Sept. 10-14, 2006)
55. "Preparing for a STEM-base Career," Lane, Thomas H (Invited), National Science Foundation Joint US/UK Summit on STEM Education, Arlington, VA (October 17, 2006).
56. "Focus on STEM Education," Lane, Thomas H. (Invited), YES Expo, Detroit, MI (November 2, 2006)
57. "STEM-base Careers," Lane, Thomas H., Association Chemical Education, London, England (December 7, 2006).
58. "Workforce readiness," Lane, Thomas H. (Invited), Leadership Saginaw, Saginaw, MI (January 10, 2007).

59. "Children, Community, Partnerships; A Commitment to Education," Lane, Thomas H. (Invited), Tri-County Leadership Academy, Bay City, MI (March 1, 2007)
60. "A Commitment to Education," Lane, Thomas H. (Invited), Jesse Loomis Math, Science, and Technology Academy, Saginaw, MI (March 6, 2007).
61. "Strengthening the Bond: Chemistry, Members, the World – Together," Lane, Thomas H. (Invited), 233rd ACS National Meeting, Chicago, IL (March 28, 2007).
62. "Life-lessons and Life-long Learning," Lane, Thomas H. (Keynote), Bay Area Foundations and Scholarships, Bay City, MI, (May 2007)
63. "Workforce readiness, the teacher's perspective," Lane, Thomas H. (Invited), New York Conference Board summit on Workforce Readiness, Washington DC (June 26, 2007).
64. "Silanols as Antimicrobial Agents," Brandstadt, Kurt; Malczewski, Regina, Walker, Quintisha; Lane, Thomas H., 4th European Silicon Days, Bath, England (Sept 9-11, 2007).
65. "Inspired by Nature," Lane, Thomas H., (Invited), Michigan State University, East Lansing, MI (February 13, 2008).
66. "STEM Education and Workforce Readiness," Lane, Thomas H. (Invited), National Academy of Science, Chemical Science Roundtable, Washington DC (February 20, 2008).
67. "Inspired by Nature," Lane, Thomas H., (Invited), FIU, Miami, FLA (April 18, 2008)
68. "Ten things to think about as you enter the chemical enterprise," Lane, Thomas H., (Invited), South Central FLA Local Section Awards Dinner, Miami, FLA (April 19, 2008).
69. "Ten things to think about as you enter the chemical enterprise," Lane, Thomas H. (Invited), Midland Section Awards Dinner, Midland, MI (April 23, 2008).
70. "Inspired by Nature," Lane, Thomas H. (Invited), University of Tenn at Martin, Martin, TN (April 22, 2008)
71. "Ten things to think about as you enter the chemical enterprise," Lane, Thomas H., (Invited), University of Tenn at Martin, Awards Dinner, Martin, TN (April 23, 2008).
72. "The importance of R&D and STEM education," Lane, Thomas H., Capital Hill, Washington, DC (April 30, 2008).
73. "Keynote, Gibbs Medal, Award Dinner," Lane, Thomas H., Chicago, IL (May 9, 2008).
74. "Employment in the Chemical Industry," Lane, Thomas H. (Invited), IGERT, NSF, Washington DC (May 19, 2008).
75. "Bioinspired Silicon Chemistry," Vincenzo Abbate, Alan R Bassindale, Kurt F Brandstadt, Antonio Codina-Barrios, Nanda Frascione, Rachel Lawson, Peter G Taylor and Thomas H Lane, (Invited), ISOS-XV, Jeju, Korea (June 1-6, 2008).
76. "Water, a global imperative." Lane, Thomas H. (Invited), ACS/SCI, Washington DC (June 3, 2008).
77. "Keynote," Lane, Thomas H. (Invited), National Historic Chemical Landmark, Pfizer, Brooklyn, NY (June 12, 2008).
78. "Keynote," Lane, Thomas H. (Invited), ACS Regional Awards Dinner, Central Regional Meeting, Columbus, OH (June 13, 2008).
79. "Welcome Remarks," Lane, Thomas H. (Invited), ACS Regional Meeting Leadership Development, CRM, Columbus, OH (June 14, 2008).

80. "Innovations in chemical education," Lane, Thomas H., Washington DC (July 1, 2008).
81. "Enhancing the employability of chemistry graduates," Lane, Thomas H. (Invited), BCCE, Indiana University, Bloomington, IN (July 29, 2008)
82. "STEM Education," Lane, Thomas H. (Invited), Education Round Table, Bay City, MI (August 25, 2008).
83. "STEM Education," Lane, Thomas H. (Invited), Alpha Delta Kappa, Saginaw Region, MI (September 8, 2008).
84. "Bioenergy," Lane, Thomas H. (Invited), Pacific Rim Summit on Industrial Biotechnology and Bioenergy, Vancouver, BC (September 11, 2008).
85. "Water-based paints and DIY," Lane, Thomas H. (Invited), National Historic Chemical Landmark, Philadelphia, PA (September 15, 2008).
86. "Keynote Address," Lane, Thomas H. (Invited), Bay City Public Schools (September 22, 2008).
87. "Keynote," Lane, Thomas H. (Invited), Western Regional Meeting, Las Vega, NV (September 23, 2008)
88. "Keynote," Lane, Thomas H. (Invited), Connections to Chemistry, Burlington HS, Burlington MA (October 16, 2008)
89. "Keynote," Lane, Thomas H. (Invited), Columbus Local Section Award Dinner, Columbus, Ohio (October 21, 2008).
90. "Keynote," Lane, Thomas H. (Invited), AISES National Meeting, Anaheim, CA (October 30, 2008).
91. "Applied Chemical Professionals and the Chemical Industry," Lane, Thomas H. (Invited), ACS Southeastern Regional Meeting, Nashville, TN (November 14, 2008)
92. "Leadership," Lane, Thomas H. (Invited), ACS Leadership Development Institute, Fort Worth, TX (January 23, 2009).
93. "Mastering the 7-C's," Lane, Thomas H. (Invited), Career Industry Forum, Washington DC (January 8, 2009)
94. "STEM Education – our role as a professional society," Lane, Thomas H. (Invited), National Science Teachers Association, Washington, DC (January 26, 2009).
95. "Global Challenges and Pure Water," Lane, Thomas H. (Invited), National Press Club, Washington DC (January 27, 2009).
96. "Keynote," Lane, Thomas H. (Invited), ACS New Officers Reception, Washington DC, (January 27, 2009).
97. "Keynote," Lane, Thomas H. (Invited), ACS Board Staff, Washington DC (January 28, 2009).
98. "Chemical Technicians; your role in the Chemical Industry and the ACS," Lane, Thomas H. (Invited), MMTG, (February 5, 2009).
99. "Mastering the Necessary Skills for the Present and Future," Lane, Thomas H. (Invited), (February 12, 2009)
100. "Nichols Medal Award Presentation," Lane, Thomas H. (Invited), New York, NY (March 13, 2009).
101. "Who is this guy and why should I care?" Lane, Thomas H. (Invited), SAACS, Salt Lake City, UT (March 22, 2009)
102. "Chemistry: Improving People's Lives," Lane, Thomas H. (Invited), Ott Lecture, Grand Valley State University, Grand Rapids, MI (April 9, 2009).
103. "Inspired by Nature," Lane, Thomas H. (Invited), Ott Lecture, Grand Valley State University, Grand Rapids, MI (April 10, 2009).
104. "Award Luncheon Keynote Address," Lane, Thomas H. (Invited), NOBCCChE, St. Louis, MO (April 17, 2009)

105. "Chemistry: Improving People's Lives," Lane, Thomas H. (Invited), College of the Ozarks, Branson, MO (April 20, 2009)
106. "Inspired by Nature," Lane, Thomas H. (Invited), College of the Ozarks, Branson, MO (April 21, 2009).
107. "Keynote – Legislative Summit and Public Service Awards," Lane, Thomas H. (Invited), Washington DC (May 5, 2009)
108. "Crystal Apple Award Keynote Address," Lane, Thomas H. (Invited), Saginaw, MI (May 19, 2009).
109. "Bay Area Scholarship Award Keynote Address," Lane, Thomas H. (Invited), Bay City, MI (May 28, 2008)
110. "State of the ACS," Lane, Thomas H. (Invited), Canadian Society of Chemistry Annual Meeting, Hamilton ON (May 30, 2009)
111. "Hach Building Dedication," Lane, Thomas H. (Invited), Washington DC (June 3, 2009).
112. "Keynote Address – USNCO," Lane, Thomas H. (Invited), Colorado Springs, CO (June 13, 2009)
113. "Keynote Address," Lane, Thomas H. (Invited), University of Windsor, Windsor, ON (June 17, 2009)
114. "Opening Remarks – 2009 Presidential Green Chemistry Challenge Awards," Lane, Thomas H. (Invited), Washington DC (June 22, 2009)
115. "State of the Society," Lane, Thomas H. (Invited), Royal Society of Chemistry, London, England (July 8, 2009).
116. "Keynote," Lane, Thomas H. (Invited), World Congress on Industrial Biotechnology, Montreal, Quebec (July 20, 2009)
117. "Inspired by Nature," Lane, Thomas H. (Invited), ACS Summer School on Green Chemistry, Golden, CO (July 24, 2009).
118. "The state of the Society," Lane, Thomas H. (Invited), IUPAC World Congress and General Assembly, Glasgow, Scotland (July 30, 2009)
119. "Pittsburgh Landmark," Lane, Thomas H. (Invited), Pittsburgh PA, (August 26, 2009).
120. "Pennsylvania Oil Industry Landmark," Lane, Thomas H. (Invited), Titusville, PA, (August 27, 2009).
121. "ACS President speaks out on a technician that influenced his career," Lane, Thomas H. (Invited), 238th ACS National Meeting, Washington, DC (Aug 16-20, 2009).
122. "Bioinspired silicon chemistry," Bassindale, Alan R.; Abbate, Vincenzo; Brandstadt, Kurt. F.; Codina-Barrios, Antonio; Frascione, Nanda; Lawson, Rachel; Taylor, Peter G.; Lane, Thomas H., 238th ACS National Meeting, Washington, DC, United States, (August 16-20, 2009)
123. "The State of the Society," Lane, Thomas H. (Invited), 13th Federation of Asian Chemical Societies Congress, Shanghai and Beijing, China (September 2009).
124. "Chemistry and you," Lane, Thomas H. (Invited), Purdue University Alumni Event, West Lafayette, IN (September 24, 2009).
125. "Being Successful in the Chemical Enterprise," Lane, Thomas H. (Invited), University of Michigan, Flint (October 2, 2009).
126. "Inspired by Nature," Lane, Thomas H. (Invited), University of Wisconsin, Platteville (October 8, 2009).
127. "State of the Society," Lane, Thomas H. (Invited), EUChemS General Assembly, Interlaken Suisse (October 10, 2009).
128. "National Chemistry Week," Lane, Thomas H. (Invited), Ballou High School, Washington DC (October 20, 2009).

129. "Keynote address," Lane, Thomas H. (Invited), 61st Southeast Regional Meeting, San Juan, PR (October 21, 2009).
130. "Keynote address," Lane, Thomas H. (Invited), AISES National Meeting, Portland, OR (October 21, 2009).
131. "Keynote address," Lane, Thomas H. (Invited), Middle Tennessee State University, Murfreesboro, TN (Nov 5, 2009)
132. "Keynote address," Lane, Thomas H. (Invited), National Tennessee Science Teachers Association, Franklin, TN (Nov 6, 2009)
133. "Keynote address National Historic Chemical Landmark," Lane, Thomas H. (Invited), National Institutes of Health, Bethesda, MD (November 12, 2009)
134. "Keynote Address Community College Award," Lane, Thomas H. (Invited), San Jose, CA (Nov 20, 2009)
135. "Inspired by Nature," Lane, Thomas H. (Invited), Central Michigan University, Mt Pleasant, MI (January 15, 2010)
136. "Being a Leader," Lane, Thomas H. (Invited), ACS Leadership Institute, Fort Worth, TX (January 24, 2010)
137. "Inspired by Nature," Lane, Thomas H. (Invited), ACS Leadership Institute, Fort Worth, TX (January 24, 2010)
138. "Inspired by Nature," Lane, Thomas H. (Invited), Iowa State University, Ames, Iowa (February 12, 2010)
139. "Working the Chemical Enterprise," Lane, Thomas H. (Invited), Iowa State University, Ames, Iowa (February 13, 2010)
140. "Keynote – the Difference is YOU," Lane, Thomas H. (Invited), AISES, Albuquerque, NM (March 11, 2010)
141. "Keynote (Commencement Address) – A few things to think about...," Lane, Thomas H. (Invited), United States Air Force Academy, Department of Chemistry, Colorado Springs, CO (April 1, 2010)
142. "Keynote; Our Children; Our Future: a commitment to education," Lane, Thomas H. (Invited), MARM, Wilmington, DE (April 10, 2010)
143. "Keynote, Working in the Chemical Enterprise," Lane, Thomas H. (Invited), MARM Graduate and Post –Doc Research Symposium, Wilmington, DE (April 11, 2010)
144. "Keynote, Western Carolina Local Section Awards Ceremony," Lane, Thomas H. (Invited), Furman University, Greenville, SC (April 13, 2010).
145. "The difference is you!" Lane, Thomas H. (Invited), Wade Hampton High School, Greenville, SC (April 13, 2010). Section 1
146. "The difference is you!" Lane, Thomas H. (Invited), Wade Hampton High School, Greenville, SC (April 13, 2010). Section 2
147. "The difference is you!" Lane, Thomas H. (Invited), Boiling Springs High School, Greenville, SC (April 14, 2010). Section 1
148. "The difference is you!" Lane, Thomas H. (Invited), Boiling Springs High School, Greenville, SC (April 14, 2010). Section 2
149. "Special speaker, Midland Section Local Section Awards Ceremony," Lane, Thomas H. (Invited), Dow Corning Corp, Midland, MI (April 22, 2010).
150. "Keynote, A Few Things to Think About...," Lane, Thomas H. (Invited), SACNAS Regional Meeting, Brandeis University, Waltham, MA (April 24, 2010).
151. "Keynote, Innovate, Collaborate, and Explore - A Few Things to Think About...," Lane, Thomas H. (Invited), Yeshiva University, New York, NY (May 7, 2010).

152. "Working Together; Achieving our Mission and Building our Region," Lane, Thomas H., Delta College, University Center, MI (May 26, 2010).
153. "Opening Remarks," Lane, Thomas H. (Invited), 27th Chinese Chemical Society Meeting, Xiamen, China (June 20, 2010).
154. "MOU Signing and Remarks," Lane, Thomas H. (Invited), 27th Chinese Chemical Society Meeting, Xiamen, China (June 20, 2010).
155. "IYC 2011 – Joining the World Celebrating Chemistry," Lane, Thomas H. (Invited), Royal Australian Chemical Institute Congress, Melbourne, Australia (July 5, 2010).
156. "Meeting the needs of the industrial chemist," Lane, Thomas H. (Invited), Royal Australian Chemical Institute Congress, Melbourne, Australia (July 6, 2010).
157. "Keynote: Inspired by Nature," Lane, Thomas H. (Invited), Royal Australian Chemical Institute Congress, Melbourne, Australia (July 8, 2010).
158. "Keynote: Inspired by Nature," Lane, Thomas H. (Invited), Green Chemistry Summer School, Colorado School of Mines, Golden Colorado (July 24, 2010).
159. "Keynote: A lifetime of Silicon Chemistry," Lane, Thomas H. (Invited), The Open University, Milton Keynes, England (September 16, 2010).
160. "Keynote: A few things to think about...", Lane, Thomas H. (Invited), Chemistry Expo, Eastern Michigan University (October 16, 2010).
161. "Keynote, International Year of Chemistry," Lane, Thomas H. (Invited), Woodland Academy, Lake Forest, IL (January 20, 2011).
162. "Keynote, High School Chemistry Day," Lane, Thomas H. (Invited), ACS National Meeting, Anaheim, CA (March 27, 2011)
163. "Keynote, ACS Student Chapter Awards," Lane, Thomas H. (Invited), ACS National Meeting, Anaheim, CA (March 27, 2011)
164. "Keynote, AISES Region VI," Lane, Thomas H. (Invited), AISES Regional Meeting, Central Michigan University, Mount Pleasant, MI (April 1, 2011)
165. "Keynote, A Few Things to Think About," Lane, Thomas H. (Invited), University of Detroit Mercy, Detroit, MI (April 14, 2011)
166. "Keynote, NOBCChE National Science Bowl," Lane, Thomas H. (Invited), NoBCChE National Meeting, Houston, TX (April 22, 2011)
167. "Keynote, Building Bridges for the STEM Pipeline," Lane, Thomas H. (Invited), 192nd YC2 National Conference, Canton, OH (May 20, 2011).
168. "Keynote, "IYC 2011 Chemistry - our life, our future, and a few things to think about!" Lane, Thomas H. (Invited), Thomas Jefferson High School for Science and Technology, Alexandria, VA (June 1, 2011).
169. "Keynote, Chemistry, our life, our future, and a few things to think about," Lane, Thomas H. (Invited), United States Air Force Academy, Colorado Springs, CO (June 11, 2011).
170. "Business' Role in STEM Education," Lane, Thomas H. (Invited), Dow Corning Corporation, Midland, MI (July 12, 2011).
171. "Keynote address," Lane, Thomas H. (Invited), Palais des Congres, Versailles, France (Sept 10, 2011)
172. "A few things to think about," Lane, Thomas H. (Invited), Columbus State University, Columbus, GA (September 23, 2011).
173. "The state of STEM education in the USA," Lane, Thomas H. (Invited), ACS, Washington DC, (December 16, 2011).
174. "STEM Education in the USA," Lane, Thomas H. (Invited), New York Science Academy, (January 13, 2012).

175. "Being a 21st Century Leader," Lane, Thomas H. (Invited), National Leadership Academy (ACS), Fort Worth, TX (January 21, 2012).
176. "Economic Growth and Education an inextricable link" Lane, Thomas H. (Invited), Bay Future Annual Meeting, Bay City, MI (March 9, 2012)
177. "Being a Chemical Process Professional," Lane, Thomas H. (Invited), National ACS Meeting, San Diego, CA (March 27, 2012).
178. "Investing in STEM: a panel discussion," Lane, Thomas H. (Invited), Delta College and ACS, University Center, MI (April 14, 2012)
179. "Being Successful in the Real World," Lane, Thomas H. (Invited), SVSU, Saginaw, MI (April 20, 2012).
180. "Careers in STEM," Lane, Thomas H. (Invited), 2nd Annual COURI Symposium, El Paso, TX (April 21, 2012).

PROFESSIONAL COMMUNICATIONS (TOTALS)

Presentations: 393

Research and Scholarly Reports: 134

Refereed Publications: 34

Patents: 16 US and >100 Foreign

Book/Book Chapters: 7