

Arthur J. Ragauskas
Professor
2013

Fellow American Association for the Advancement of Science
Fulbright Chair of Alternative Energy
BioEnergy Science Center
Institute of Paper Science and Technology
School of Chemistry and Biochemistry
Georgia Institute of Technology
Atlanta, GA

Brief Biographical Sketch:

Arthur Ragauskas held the first Fulbright Chair in Alternative Energy and is a Fellow of American Association for the Advancement of Science Fellow, the International Academy of Wood Science and TAPPI. His research program at Georgia Institute of Technology is seeking to understand and exploit innovative sustainable bioresources. This multifaceted program is targeted to develop new and improved applications for nature's premiere renewable biopolymers for biomaterials, biofuels, biopower, and bio-based chemicals. His research program has been sponsored by NSF, USDA, DOE, GA Traditional Industry Program, a consortium of industry partners, and several fellowship programs. His Fulbright sponsored activities at Chalmers University of Technology, Sweden were focused on the forest biorefinery and new biofuel conversion technologies for lignocellulosics. Currently, Dr. Ragauskas manages a research group of +27 graduate students, postdoctoral research fellows, a research scientist, and visiting scientists. He has collaborative research projects with several GA Tech faculty and is the GA Tech team leader for Biological Energy Science Center (BESC) research efforts and team leader for an industrial consortium program titled Black Liquor Hemicellulose Recovery and Utilization. He is the recipient of the 2014 ACS Affordable Green Chemistry award and his students have won several awards, including the ACS graduate research award.

Ragauskas is an Associate Editor for Biofuels, Bioproducts and Biorefining, Biofuels, BioEnergy Research, Industrial Biotechnology, Taiwan Journal of Forest Service, TAPPI J., Industrial Biotechnology, Holzforschung, Journal of Biobased Materials and Bioenergy, Journal of Petroleum Technology and Alternative Fuels, The Open Biotechnology Journal, Current Biotechnology, and J. Wood Chemistry and Technology. He is an editorial board member of Sustainability and Journal of Chemical Technology and Biotechnology. Ragauskas has served on several advisory boards and review panels including: Austrian Science Fund, European Commission Research Directorate, National Science Academy, J. Paul Getty Trust, NSF, USDA, DOE, ARAP-E, NSERC, BARD, FIRST, TAPPI Research Management Committee, Netherlands Organization for Scientific Research (NWO), Swedish Foundation for Strategic Research, Swedish VINN Excellence Center, Swedish Knowledge Foundation, VTT Technical Research Centre of Finland, ERA Chemistry, Swiss National Science Foundation, Finnish Academy of Science Norway Research Council, The Technology Foundation STW, Agence Nationale de la Recherche and Singapore Agency for Science, Technology and Research. Dr. Ragauskas has been an invited visiting professor at Universidade da Beira Interior, Portugal; Chalmers University of Technology, Sweden; Royal Institute of Technology/ STFi, Stockholm, Sweden; and South China University of Technology, China.

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**ARTHUR J. RAGAUSKAS
CURRICULUM VITAE**

RAGAUSKAS, ARTHUR JONAS Professor, School of Chemistry and Biochemistry
Georgia Institute of Technology

Educational Background:

Honors B.S. Chemistry, University of Western Ontario	1976 – 1980
Ph.D. Science, University of Western Ontario	1980 – 1985

Employment History:

National Science and Engineering Research Council of Canada (NSERC) Postdoctoral Fellow, University of Alberta, Canada	1985 – 1986
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NSERC Postdoctoral Fellow, Colorado State University	1986 – 1987
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National Research Council of Canada, Associate Research Scientist	1987 – 1989
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Assistant Professor of Wood Chemistry Institute of Paper Science and Technology (IPST)	1989 – 1995
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Associate Professor of Wood Chemistry Institute of Paper Science and Technology	1995 – 1998
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Professor of Wood Chemistry Institute of Paper Science and Technology	1998 – 2003
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Associate Professor School of Chemistry and Biochemistry Georgia Institute of Technology (GA Tech)	2003 – 2007
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Professor School of Chemistry and Biochemistry Georgia Institute of Technology (GA Tech)	2007 – present
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Current Fields of Expertise:

BioRefinery, BioFuels, Bio-Based Materials, BioComposites, BioPower, Fiber Modification, Nanobioterials, Pulping/Bleaching, Sustainability/Green Chemistry, Chemistry of Natural Biopolymers including Cellulose, Hemicellulose, and Lignin, Organic/Carbohydrate Chemistry

HONORS, AWARDS, AND RECOGNITIONS:

- ACS Award for Affordable Green Chemistry (2014)
- ORNL Visiting Fellow (2013)
- Elected American Association for the Advancement of Science Fellow (2012)
- Elected to Academy Board of International Academy of Wood Science (2012)
- Fulbright Distinguished Chair in Alternative Energy (2008-2009)
- Nominated to National Commission on Energy Policy (2008)
- Recipient of 2008 William H. Aiken Research Prize
- Served on the Committee on Technologies to Deter Currency Counterfeiting, Board on Manufacturing and Engineering Design, Division on Engineering and Physical Sciences, National Research Council of the National Academies (2005-2006)
- Elected Fellow to International Academy of Wood Science (2003)
- Elected TAPPI Fellow (2003)
- Receptiant of Luso-American Foundation teaching fellowship at Departamenta Ciencae Technologia do Papel Universidade da Beira Interior, Covilhã - Portugal (2003)
- Invited guest teaching professor at Chalmers University of Technology, Sweden (2001)
- Best Poster at International Pulp Bleaching Conference, Halifax (2000)
- 1999 IPST President's Award for Education
- 1999 IPST Teacher of the Year
- Cited in Marquis Who's Who in Science and Engineering (1999-present)
- Cited in Who's Who in Plastics and Polymers (2000-2002)
- Invited guest professor to Royal Institute of Technology/STFI, Stockholm, Sweden (1998)
- Invited guest professor South China University of Technology, Guangzhou, China (1996)
- Research Associate Fellowship, National Research Council Canada (1987-1989)
- National Science and Engineering Research Council Canada, Postdoc Fellowship(1985-1987)
- National Science and Engineering Research Council Canada, Graduate Fellowship (1980-1984)

PATENTS:

- Chakar, F.S; Ragauskas, A.J., Methods for Reducing Fluorescence in Paper-Containing Samples. Patent # 6,294,047 B1 & 6,387,211 B1 (2001).
- Ragauskas, Arthur J.; Kim, Dong Ho., Metal Substituted Xerogels for Improved Peroxide Bleaching of Kraft Pulps. U.S. Pat. Appl. Publ. (2003), CODEN: USXXCO US 2003019596 A1 20030130 CAN 138:108518 AN 2003:77170.
- Deng, Y.; Yoon, S.Y.; Ragauskas, A.; White, D., Methods and Compositions for Papermaking. U.S. Pat. 7,964,063 B2 (2011).
- David K.; Muzzy, J.; Ragauskas, A.J., Catalytic Pyrolysis of Wood (provisional GT)
- Ziemer, C.J.; Arcidiacono, S.; Ragauskas, A.; Morrison, M., Novel fibro-biotic bacterium isolate. U.S. Pat. Appl. Publ. (2011), US 20110076356 A1 Application: US 2009-569572 20090929. Priority: US 2009-569572 20090929.
- Sannigrahi, P.; Ragauskas, A.J.; Miller, S. J. Chlorine dioxide treatment of biomass feedstock useful in production of biofuel ethanol. U.S. Pat. Appl. Publ. (2012), US 20120040413 A1 20120216; PCT Int. Appl. (2012), WO 2012021725 A1 20120216.

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1. Lignin to lipid bioconversion by oleaginous Rhodococci. Kosa, M.; Ragauskas, A.J., *Green Chemistry* (2013), 15(8), 2070-2074.
2. Biodiesel from grease interceptor to gas tank. Ragauskas, A.M.E.; Pu, Y.; Ragauskas, A.J., *Energy Science & Engineering* (2013), 1-11.
3. The fate of lignin during hydrothermal pretreatment. Trajano, H.L.; Engle, N.L.; Foston, M.; Ragauskas, A.J.; Tschaplinski, T.J.; Wyman, C.E., *Biotechnology for Biofuels* (2013), 6, 110.
4. Use of Simons' stain and NMR to track changes in cellulose accessibility during pretreatment and enzymatic hydrolysis for poplar and switchgrass. Meng, X.; Kosa, M.; Ragauskas, A.J. *Bioresource Technology*, (2013) 144, 467–476
5. Carbohydrate and lignin are simultaneously solubilized from unpretreated switchgrass by microbial action at high temperature. Kataeva, I.; Foston, M.B.; Yang, S.J.; Pattathil, S.; Biswal, A.K.; Poole, F.L., II; Basen, M.; Rhaesa, A.M.; Thomas, T.P.; Azadi, P.; Olman, Vr; Saffold, T.D.; Mohler, K.E.; Lewis, D.L.; Doeppke, C.; Zeng, Y.; Tschaplinski, T.J.; York, W.S.; Davis, M.; Mohnen, D.; Xu, Y.; Ragauskas, A.J.; Ding, S.Y.; Kelly, R.M.; Hahn, M.G.; Adams, M.W.W., *Energy & Environmental Science* (2013), 6(7), 2186-2195.
6. Polymerization of Kraft lignin via ultrasonication for high-molecular-weight applications. Wells, T. Jr.; Kosa, M.; Ragauskas, A.J. *Ultrasonics Sonochemistry*, 20 (2013) 1463–1469
7. Enhanced characteristics of genetically modified switchgrass (*Panicum virgatum* L.) for high biofuel production. Shen, H.; Poovaiah, C.R.; Ziebell, A.; Tschaplinski, T.J.; Pattathil, S.; Gjersing, E.; Engle, N.L.; Katahira, R.; Pu, Y.; Sykes, R.; Mielenz, J.R.; Hahn, M.G.; Davis, M.; Stewart, C.N. Jr.; Dixon, R.A., *Biotechnology for Biofuels* (2013), 6, 71.
8. The effect of deuteration on the structure of bacterial cellulose. Bali, G.; Foston, M.B.; O'Neill, H.M.; Evans, B. R.; He, J.; Ragauskas, A.J., *Carbohydrate Research* (2013), 374, 82-88.
9. Extraction of Hemicellulose from Loblolly Pine Woodchips and Subsequent Kraft Pulping. Huang, F.; Ragauskas, A., *Industrial & Engineering Chemistry Research* (2013), 52(4), 1743-1749.
10. Assessing the molecular structure basis for biomass recalcitrance during dilute acid and hydrothermal pretreatments. Pu, Y.; Hu, F; Huang, F.; Davison, B. H.; Ragauskas, A.J. *Biotechnology for Biofuels* (2013), 6, 15.
11. Compositional Characterization and Pyrolysis of Loblolly Pine and Douglas-fir Bark, Pan, S.; Pu, Y.; Foston, M.; Ragauskas, A.J., *BioEnergy Research* (2013), 6(1), 24-34.

12. Mechanical deconstruction of lignocellulose cell walls and their enzymatic saccharification. Hoeger, I.C.; Nair, S.S.; Ragauskas, A.J.; Deng, Y.; Rojas, O.J.; Zhu, J.Y. *Cellulose* (2013) 20:807–818.
13. Investigation of the fate of poplar lignin during autohydrolysis pretreatment to understand the biomass recalcitrance. Samuel, R.; Cao, S.; Das, B. K.; Hu, F.; Pu, Y. *RSC Advances* (2013), 3(16), 5305-5309.
14. Improving Physical Properties of Kraft Hardwood Pulps by Copulping with Agricultural Residues. Levit, M.V.; Allison, L.; Bradbury, J.; Ragauskas, A.J., *Industrial & Engineering Chemistry Research* (2013), 52(9), 3300-3305.
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19. Impact of Pseudolignin versus Dilute Acid-Pretreated Lignin on Enzymatic Hydrolysis of Cellulose. Hu, F.; Jung, S.; Ragauskas, A. *ACS Sustainable Chemistry & Engineering*, (2013), 1(1), 62-65.
20. Fuel ethanol production from *Eucalyptus globulus* wood by autocatalized organosolv pretreatment ethanol-water and SSF. Yanez-S, M.; Rojas, J.; Castro, J.; Ragauskas, A.; Baeza, J.; Freer, J., *Journal of Chemical Technology and Biotechnology* (2013), 88(1), 39-48.
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38. Development of New Methods in Scanning Probe Microscopy for Lignocellulosic Biomass Characterization. Tetard, L.; Passian, A.; Jung, S.; Ragauskas, A.J.; Davison, B.H., *Industrial Biotechnology* (2012), 8(4), 245-249.
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43. Pseudo-lignin formation and its impact on enzymatic hydrolysis. Hu, F.; Jung, S.; Ragauskas, A., *Bioresource Technology* (2012), 117, 7-12.
44. Synthesis of a novel cellulose nanowhisker-based drug delivery system. Dash, R.; Ragauskas, A.J., *RSC Advances* (2012), 2(8), 3403-3409.
45. Chemical Characterization and Water Content Determination of Bio-oils Obtained from Various Biomass Species using ³¹P-NMR Spectroscopy. Biofuels, David, K.; Ben, H.; Muzzy, J.; Feik, C.; Lisa, K.; Ragauskas, A.J. *Biofuels* (2012), 3(2), 123-128.
46. Cellulose Nanowhisker Foams by Freeze Casting, *Carbohydrate Polymers*, Dash, R.; Li, Y.; Ragauskas, A.J., (2012), 88(2), 789-792.

47. ^{13}C Selective Excitation Cross Polarization and Spin Diffusion NMR to Resolve Spatial Dimensions in Plant Cell Walls. Foston, M.; Katahira, R.; Gjersing, E.; Davis, M. F.; Ragauskas, A.J., *Journal of Agricultural and Food Chemistry* (2012), 60(6), 1419-1427.
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51. Ethanol Organosolv Lignin-based Rigid Polyurethane Foam Reinforced with Cellulose Nanowhiskers. *Analyst*. Li, Y.; Ragauskas, A.J. *RSC Advances* (2012), 2(8), 3347-3351.
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53. Determination of cellulase colocalization on cellulose fiber with quantitative FRET measured by acceptor photobleaching and spectrally unmixing fluorescence microscopy. Wang, L.; Wang, Y.; Ragauskas, A.J. *Analyst* (2012), 137(6), 1319-1324.
54. Biopolymer Nanocomposite Films Reinforced With Nanocellulose Whiskers. Saxena, A.; Foston, M.; Kassae, M.; Elder, T.J.; Ragauskas, A.J. *J. Nanosci. Nanotechnol.* (2012) 12, 218-226.
55. Bioconversion of Lignin Model Compounds with Oleaginous *Rhodococci*, Applied Microbiology and Biotechnology, Kosa, M.; Ragauskas, A.J. *Applied Microbiology and Biotechnology* (2012), 93(2), 891-900.
56. Kraft Lignin-based Rigid Polyurethane Foam. Li., Y.; Ragauskas, A.J. *J. of Wood Chemistry and Technology* (2012) 32(3), 210-224.
57. Dilute H_2SO_4 and SO_2 Pretreatments of Loblolly Pine Wood Residue for Bioethanol Production. Huang, F.; Ragauskas, A.J. *Industrial Biotechnology* (2012), (2012), 8(1), 22-30.
58. Preparation of Superabsorbent Cellulosic Hydrogels, Pan, S.; Ragauskas, A. J. *Carbohydrate Polymers* (2012), 87(2), 1410-1418.
59. Torrefaction of Loblolly Pine, Ben, H.; Ragauskas, A.J. *Green Chemistry*, (2012), 14 (1), 72 – 76.

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61. Heteronuclear Single-Quantum Correlation-Nuclear Magnetic Resonance (HSQC-NMR) Fingerprint Analysis of Pyrolysis Oils. Ben, H.; Ragauskas, A. *J. Energy & Fuels* (2011), 25(12), 5791-5801.
62. Chemical, Ultrastructural and Supramolecular Analysis of Tension Wood in *Populus Tremula* x *Alba* as a Model Substrate for Reduced Recalcitrance, Foston, M.; Hubbell, C.A.; Samuel, R.; Jung, S.; Fan, H.; Ding, S.Y.; Zeng, Y.; Jawdy, S.; Davis, M.; Sykes, Robert; Gjersing, E.; Tuskan, G.A.; Kalluri, U.; Ragauskas, A.J., *Energy & Environmental Science* (2011), 4(12), 4962-4971.
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HONORARY/PLENARY SPEAKER

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1. Transformational Forest Biorefineries Opportunities and Challenges, KETJU (Sustainable Products and Production Conference, Finnish Academy Science (February 2009).
2. The BioRefinery: The Next Green Revolution in Science, Engineering and Innovation, Berzeliusdagarna, University of Stockholm (January 2008).
3. Platform Chemicals from Biomass, Alberta Research Council, Canada (2005).
4. NanoBioterials, Nanotechnology Forest Products Workshop, Washington, DC (2004).
5. Nanotechnology in the Pulp and Paper Industry, Lake States TAPPI/NC PIMA Conf. (2004).
6. Nano-Biotechnology Changing the Challenge in Pulp & Paper Research, TAPPI Fall Technical Conference: Engineering, Pulping & PCE&I, Oct., Chicago, IL (2003).
7. Back to The Future: How Current Pulp-Bleaching Research Will Influence Future Furnish Resources. 7th Pira Recycling Technology Conference, Brussels (2002).
8. Biotechnology in the Pulp and Paper Industry: A Challenge for Change. Ragauskas, A.J., 8th International Conference on Biotechnology in the Pulp and Paper Industry, Helsinki, Finland (2001).
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1. Biofuels: From the Field to the Fuel-Tank. USA Embassy, Vilnius, Lithuania (May, 2013).
2. Lignocellulosic 2nd and 3rd Generation Biofuels - Using Science to Accelerate Implementation. Natick Soldier Center, MA (March, 2013).
3. Using NMR to Characterize Recalcitrance Elements in Biomass at the Molecular Level. 2013 Pittcon, Philadelphia, PA.
4. Enabling Biopolymers through Green Chemistry, 2012 International Bioenergy Days (Oct., 2012)

5. Sustainable Nano-Materials - What is happening at the cellular level? DOE Workshop on Sustainable Nanomaterials (June, 2012 in VA)
6. (i) Introduction to Biorefining Session; (ii) Biorefining Expanding the Envelope for Green Forest Products Manufacturing, IPST Members Meeting (April, 2012).
7. Organosolv Pretreatments. EBI Workshop on Pretreatment Strategies. University of California Berkeley (March, 2012).
8. Green Nanocellulosic Barriers, USDA Nanocellulose Program Review (March, 2012)
9. Lignin: The New Paradigm in Biofuels. Phytochemical Society of North America 50th Meeting, HI (December 2011).
10. Biorefineries and Bioconversions: Current and Future Challenges. GA Tech Fall 2011 Transformational Energy Speaker Series.
11. BESC Research and Lessons in Pretreatment Chemistry. Ragauskas, A.J., NSERC Bioconversion Network, University of Toronto, Canada (June 2011).
12. Fiber Modification: Strengthening Softwood Fibres with Hemicelluloses. Ragauskas, A.J., Pira 3rd biennial Fibre Engineering, Barcelona, Spain (May 2011).
13. A Fresh Look at the Biorefinery Concept: What Works and What Doesn't. Ragauskas, A.J., Wood Science and Engineering, Oregon State University (April 2011).
14. Creating Sustainable Chemical Solutions Essential to Converting Lignocellulosic Biomass resources to BioMaterials, BioFuels, BioChemicals and BioPower for People Everywhere. Ragauskas, A.J., Department of Energy, Washington, DC (April 2011).
15. Organosolv Pretreatment: Reduced Recalcitrance and More. Ragauskas, A.J. Great lakes BioEnergy Research Center, Michigan State University (March 2011).
16. BESC Research and Lessons in Pretreatment Chemistry. Ragauskas, A.J. Great lakes BioEnergy Research Center, Michigan State University (March 2011).
17. Green Chemistry: Grand Challenges from Converting Biomass to Biofuels and Bio-based Materials, FOBI series. University of Copenhagen (January 2011).
18. Hemicelluloses: The Good, The Bad, The Promising. Biomass Derived Pentoses: from Biotechnology to Fine Chemistry. Reims, France (November 2010).
19. Recent Advances in Biorefining and Pretreatment Chemistry. Second International Symposium on Bioenergy And Biotechnology, Wahun, China (2010).
20. Cellulose Whiskers, Gels, Films and Foams- New Composites and Applications XII IMC and the 7th Isnapol, Gramado, Brazil (2010).
21. BioRefining Biomass to BioFuels
 - Renewable Energy Department, Research Center of Petrobras – CENPES, Rio de Janeiro, Brazil (2010).
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22. New Energy Research – An Industry-Governmental Partnership, American Resource Center, Yliopistonkatu, Helsinki, Finland (2010).
23. A Perspective on Pre-Treatment Chemistry: Recent Advances and Future Challenges”, Jyväskylä University, Finland (2010).
24. BioRefining & Fiber Modification. Arauco Company, Concepción, Chile (2010).
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27. Forest Biorefinery: Time to Be. Polysaccharides as a Source of Advanced Materials Conference, Abo Academia, Turku, Finland (September 2009)
28. Forest BioRefinery Accomplishments, Latvian State Institute of Wood Chemistry (June 2009).
29. BioFuels and Biomaterials: Forest BioRefinery, Lithuanian Seimas (Parliament) Committee on Environment Protection (June 2009).
30. Alternative Energy in the US and State-of-the-Art Biological Conversion Technologies to Bioethanol, Lithuanian Confederation of Industrialists, Vilnius, Lithuanian (June 2009).
31. US Forest Biofinery, Lithuanian Energy Institute, Kaunas, Lithuanian (June 2009).
32. Recent Development in US Forest Biorefinery, Kaunas University of Technology, Lithuanian (June 2009).
33. Transformational Forest BioRefinery Technologies, 10th Baltic Economic Forum, Riga, Latvia (June 2009).
34. Recent Developments in US Forest Biorefinery, Novel Products and Fuels from Forest Trees Seminar Series, Umeå Plant Science Centre, Umeå University, Sweden (May 2009).
35. The Biorefinery Concept: Opportunities, Challenges and Innovation, Chalmers University of Technology (May 2009).
36. Securing Biofuels and Bioenergy from the Next Generation of Forest BioRefineries, House of Sweden/Swedish Embassy-Washington DC (May 2009).
37. US Perspective on Biorefinery, Forest Products Industry Research College (FPIRC), Royal Institute of Technology, Stockholm (January 2009).
38. Engineering the Next Generation of LignoCellulosic Fibers, Colloquium Wood Valorisation Epinal, France (January 2009).
39. Forest Biorefineries Opportunities, Challenges and Innovation, Colloquium Wood Valorisation, Epinal, France (January 2009).
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42. Wood Chemistry in the Biorefinery, Booregard, Sarpsborg, Norway (December 2008).
43. Putting Chemistry Back Into The Biorefinery, Imperial College London, London (December 2008).
44. Review of Fiber Modification, Eka Chemicals, Sweden (December 2008).
45. Seeing Fibers in a Pulp Forest. Joint SCA, Sodra, Chalmers meeting, Gotenburg, Sweden (October 2008).
46. Energizing the Forest Biorefinery: Pulp-Paper-Fuels, TAPPI SuperCorrExpo conference, Atlanta. GA, (September 2008).
47. Wanted: Technology Breakthroughs, International Bioenergy Days, MN. At request of the US State Department (September 2008).
48. Forest Biorefinery: A Contribution to the One Big Thing Fulbright Chair in Alternative Energy. US- Swedish Science and Technology Review, Swedish Ministry of Education and Research Ministry, Stockholm (September 2008).
49. Forest – Energy: One Big Thing. One Big Thing 2008 Retreat. Embassy of United States of America, Stockholm (September 2008).
50. Forest Biorefineries Bridge to Future: FPRIC Sweden (August 2008).

51. Developing the new lignocellulosic energy age. 235th ACS National Meeting, New Orleans, LA (April 2008).
52. Fiber Modification/Fiber Fiber Bonding, Eka Chemical (June 2008).
53. Advances in Fiber Modification, Aracruz, Brazil (Marc, 2008).
54. US Perspective on Biorefinery, STFI-Packforsk/KTH (January 2008).
55. Forest Biorefinery at the Cross Roads of Science, Engineering and Innovation, Mid Sweden University (January 2008).
56. The New Lignocellulosic Age, Luleå University of Technology, Skellefteå Sweden (September 2007).
57. Lignocellulose Chemistry: Lonesome BioPolymer to Key BioFuel Resource. School of Polymer, Textile and Fiber Engineering, GT (January 2008).
58. Over View of Cellulosic Material Research. Industry Days IPST@GT (November,2007)
59. Mission Possible: The Search for the New Forest Biorefinery. BioTechnology Institute - University of Minnesota (November 2007).
60. BioEnergy Science Center a DOE BioEnergy Research Center. Bioproducts and Biosystem Engineering at the University of Minnesota (November 2007).
61. Seeing Fibers in the Pulp Forest, Lectures at the Leading Edge, Department of Chemical Engineering and Applied Chemistry, University of Toronto (October 2007).
62. Forest Biorefineries: Pulp-Lumber-Biofuels Third Leg of Forest Products Industry, TAPPI Gulf Coast Conference, Auburn University (October 2007).
63. BioEnergy Science Center: DOE Bioenergy Research Center, IPST@GT (September 2007).
64. The New Lignocellulosic Age, Luleå University of Technology, Skellefteå Sweden (September 2007).
65. Universidade Beira Interior, Departamento de Ciência e Tecnologia do Papel; Covilhã, Portugal (2007).
66. University of Aveiro, Department of Chemistry; Aveiro, Portugal (June 2007).
67. Cacia Soporcel Kraft Pulp Mill, Research Department; Averio, Portugal (June 2007).
68. RAIZ - Instituto de Investigacao da Floresta e Papel; Averio, Portugal (June 2007).
 - Fiber Modification
 - Cellulose Microfibrills and Nanotechnology
 - Seeing Fibers in a Pulp Forest
 - Bio Fuels, Chemicals and Materials A Walk on the Green Side of Sustainability
69. Enhancing and Visualizing Fiber-Fiber Crossings. Södra Cell AB, Väröbacka, Sweden.
70. Microfibrills and Nanotechnology, Pulp Paper 2007, Helsinki, Finland (June 2007).
71. Forest Products Biofinery – US Perspective, Norwegian University of Science and Technology NTNU (April 2007).
72. Engineering Fiber Charging and Barriers for Paper and Board, EU COST54 – “Characterization of the Fine Structure and Properties of Papermaking Fibres using New Technologies” Riga, Latvia (April 2007).
73. BioFueling the Future. Challenges - Opportunities^{GT} Georgia Tech Advisory Board (April 2007).
74. Biofuels, Clark Atlanta University (April 2007).
75. Profiling Biomass Resources and Their Chemistries, Huntsman Houston (April 2007).
76. Advanced Lignocellulosic Based Composite Materials, IPST Board of Trustees (April 2007).

77. Biorefining the Future. 233rd ACS National Meeting, Chicago, IL, United States (March 2007).
78. Biofueling the Future. National Academy of Engineering/GA Tech (March 2007).
79. Seeing Fibers in a Pulp Forest, Royal Institute of Technology, Stockholm, Sweden (March 2007).
80. Charging Fibers for New and Enhanced Strength Properties, Pira, Stockholm (March 2007).
81. Biofuels and the Future, VTT Technical Research Centre of Finland (February 2007).
82. Biofuels for the Future, Carlsberg Institute (February 2007).
83. BioFuels: An Agenda for Research and Innovation. GTRC Board of Trustees (December 2006).
84. The Path Forward for Biofuels and Biomaterials. Primer Congreso Latinoamericano sobre Biorefinerías: Oportunidades de innovación para el sector forestal, que se realizará los días Concepción, Chile (November 2006).
85. L'Avenir des BioBiopolymeres Renouvelables, Lorexpo Metztes Congress, France (November 2006).
86. Topochemistry of Renewable Biopolymers, University Nancy, Nancy France (November 2006).
87. Food for Thought Seminar Series, Faculty of Agriculture and Environmental Sciences, McGill University (November 2006).
88. Biofuels – Biochemicals Research Needs and Opportunities, Lyondell Symposium (October 2006).
89. The Energy Challenge, GTRI: Seminar on Emerging Research Needs (October 2006).
90. Biomass to Bioproducts, Biofuels and Biopower - B2B3, AtlanTICC Alliance Symposium, Imperial College London (2006).
91. BioFuels Research Opportunities/Needs, World Congress on Industrial Biotechnology and Bioprocessing, Toronto, Canada (2006).
92. The Challenges and Opportunities for Next Generation of Forest Product Biorefineries, World Congress on Industrial Biotechnology and Bioprocessing, Toronto, Canada (2006).
93. Profiling Biomass Resources and Their Chemistries, Shell, Amsterdam, Netherlands (2006).
94. Future of Topochemical Cellulosic Fiber Modification. Metsa-Botnia, Jyväskylä, Finland (2006).
95. Fiber Modification Chemistry, International Paper Cincinnati Technology Center, Loveland, OH (2006).
96. Biofinery of the Future, Now. Rendez-Vous Atlantic Biotech, Guest of Government of Canada. Moncton, New Brunswick (2006).
97. Chemistry of Fiber Modification, Nalco Chemical Company, IL (2006).
98. Biofuels, College of Science, Georgia Institute of Technology (2006).
99. Topochemistry of Fiber Modification, Hercules, Inc., DE (2006).
100. Profiling Biomass Resources and Their Chemistries, Chevron – Texaco, Richmond, CA (2006).
101. Over the Horizon View of Nano Coatings and Barriers for Paper. Pira's Ultra-thin Films and Nanocoatings Conference, Vienna, Austria (2006).
102. Chemicals from Biomass, Alberta Research Council, Canada (2005).
103. Platform Chemicals from Forest Biomass, Alberta Forestry Research Institute, Canada (2005).
104. Nanotechnology in Pulp and Paper, Stora-Enso OYJ, Stockholm (2005).
105. Platform Chemicals from Biomass. The World Congress on Industrial Biotechnology and Bioprocessing, ACS Orlando, FL (2005).
106. Fiber Modification, Weyerhaeuser Company (May 2005).

107. A Few Good Fibers. Pre-Symposium on Wood, Forestry, and Pulping Chemistry, Auckland, New Zealand (2005).
108. Nanotechnology Innovation Directed to Forest Products Industry. Forest Products Technobusiness Forum (2005).
109. The USA Forest Industry Nanotechnology Roadmap. Nano Harju Goes Global, Lohja, Finland (2005).
110. Nanotechnology Address from the USA. Jaakko Pöyry Consulting, Helsinki, Finland (2005).
111. Fiber Modification Chemistry. Metsa-Botnia, Helsinki, Finland (2005).
112. Cellulosic Fiber Chemistry. Hercules Company, USA (2005).
113. BioPower – BioMaterials Research, School of Chemistry, Imperial College London (2005).
114. Fiber Modification Chemistry. Taiwan Forestry Research Institute (2004).
115. Nanotechnology for Pulp and Paper. IPST/CPBIS Forest Products Techno-Business Forum, (2004).
116. Innovative Fiber Modification Chemistry:
 - a. Asian Institute of Technology, Department Pulp and Paper Technology
 - b. Kasetsart University, Faculty of Forestry, Thailand (2004).
117. Biobleaching Chemistry of Laccase. Department of Chemistry, Mahidol University, Thailand (2004).
118. Nascent Nanotechnology in Pulp and Paper and Its Future. PIRA, Stockholm (2004).
119. Forest Products Biotechnology: Before and After. The World Congress on Industrial Biotechnology and Bioprocessing. ACS Orlando, FL (2004).
120. Fundamentals of Oxidative Laccase Chemistry, Departamento de Ciência e Tecnologia do Papel, Universidade Beira Interior, Covilhã, Portugal (2003).
121. Invited speaker at NSF, AAAS sponsored EMERGE Conference: Strengthening and Fostering Productive Partnerships-The Corporate Academic Role. Seminar titled “Fostering Academic-Industry Relationships”, Atlanta (2003).
122. Nanotechnology – Changing the Challenge in Pulp and Paper Research, presented at Nano All Around Us Conference, The University of Wisconsin's Inaugural Technical Conference and Public Expo on Nanotechnology (2003).
123. Future of Lignin Research, International Lignin Institute 6th Forum, Wageningen, The Netherlands (2003).
124. Invited speaker at 2003 Gordon Conference Polysaccharide Chemistry, Redefining the Pulp and Paper Industry with New Chemo-Enzymatic Technologies. Ragauskas, A.J., Gordon Conference, Italy (2003).
125. Advances in Fiber Modification, Taiwan Forestry Research Institute, Taiwan (2002).
126. Chemoenzymatic Fiber Modification, Asian Institute of Technology and Department of Forest Products, Kasetsart University, Thailand (2002).
127. Decade of Pulp and Paper Research, Kaunas University of Technology, Lithuania (2002).
128. Pulp/Bleach Mill of the Future. Innovase hosted Mini-Symposium, San Diego, CA (2001).
129. Advances in Fiber Modification Topo-Chemistry present at:
 - a. Oji Technical Research Center, Nippon Paper Company, Japan
 - b. Cheng Loong Corp., Taiwan; Advanced Agro, Thailand; April, Singapore;
 - c. Riaupaper, Indonesia; Yuen Foong Yu Paper Mfg. Co. Ltd., Taiwan; Siam Pulp and Paper Public Company Ltd., Thailand (2000).
130. Developing New Pulp Fibers. Kimberly-Clark Corporation, Neenah, WI (2000).

131. Topofiber Chemistry. Argonne National Laboratory (2000).
132. Fundamentals of Laccase Mediator System Delignification. Hercules Incorporated, Wilmington, DE (2000).
133. Laccase Biobleaching Technologies. International Paper, Tuxedo Park, NY (2000).
134. Fundamentals of Pulping and Bleaching. Westvaco Corporation, Charleston Research Center (1998).
135. Fundamentals of Biobleaching. STFI, Stockholm, Sweden (1998).
136. Fundamental Chemistry of Kraft Pulping. Ahlstrom Corporation, Finland (1998).
137. Applications of NMR in Modern Pulping and Bleaching Research, Argonne National Laboratories (1998).
138. Fundamental Structural Analysis of Residual Lignin in Kraft Pulp. Ahlstrom Corporation, Glens Falls, NY (1997).
139. Peroxide Pulp Bleaching Challenges. Florida Catalysis Conference, Palm Coast, FL (1996).
140. Fundamentals of Brightness Reversion. Nalco Chemical Company, Naperville, IL (1996).
141. Fundamentals of Brightness Reversion. South China University of Technology, Guangzhou, China (1996).
142. Activated Peroxide Bleaching Chemistry. South China University of Technology, Guangzhou, China (1996).
143. Photostabilization for High-Yield Pulps. Kimberly-Clark Corporation, Neenah, WI (1996).
144. Chemical Activation of Peroxide. 1995 TAPPI/NC State Emerging Pulping and Bleaching Workshop (1995).

Invited On-Site Industry Research Presentations

AbitibiBowater; Advanced Agro/Thailand; Ahlstrom Corporation/Finland; Appleton Papers; April/Singapore; Aracruz/Brazil; Arauco/Chile; Booregard/Norway; Buckeye Technologies Inc; Cheng Loong Corp./Taiwan; Chevron; Ciba Corporation; Consolidated Papers Incorporated; Eka-Chemical; Georgia Pacific; Hercules Incorporated; Hiroshima R&D Center/Japan; Imerys, Innovase Corporation; International Paper; Champion International Corporation; Kimberly-Clark Corporation; Korsnas AB/Sweden; LTD/Japan; MeadWestvaco; Mondi; Nalco Chemical Company; Novo-Nordisk; Mitsubishi Heavy Industries; NewPage Corp.; Nippon Paper Company/Japan; Oy Metsä-Botnia Ab/Finland; Oji Paper Co./Japan; Portucel Soporcel Group/Portugal; Potlatch Corporation; Rayonier Inc.; Riaupaper/Indonesia; SAPPI; Shell/Netherlands; SCA/Sweden; Schweitzer-Mauduit International; Siam Pulp and Paper Public Company Ltd./Thailand; Sodra/Sweden; Stora-Enso/Finland; UPM-Kymmene Group/Finland; Weyerhaeuser Company; Yuen Foong Yu Paper Mfg. Co. Ltd./Taiwan

Fibria, Jacarei, Brazil (Feb., 2013)

- Kraft fiber engineering
- Nanocellulose
- Biofuels

Contributed Participation

- 35th Symposium on Biotechnology for Fuels and Chemicals, April 29-May 2, 2013, Portland, OR:
 - Oral Presentation:
 - Insights into lignin in the reduced recalcitrance of transgenic switchgrass. Yunqiao Pu, Reichel Samuel, Chunxiang Fu, Hui Shen, Zeng-Yu Wang Richard A. Dixon and Arthur Ragauskas.
 - Surface characterization of transgenic poplar by TOF-SIMS. Arthur Ragauskas, Tao Ma, Seokwon Jung, Garima Bali, Udaya C. Kalluri and Gerald Tuskan
 - Biodesign of Rhodococci for Lignin Fuel: A Path from Systems to Synthetic Biology. Shangxian Xie, Yue Xing, Hu Chen, Xiao Li, Tyron Wells, Susie Y. Dai, Arthur Ragauskas and Joshua S. Yuan
 - Post Presentation:
 - Fungal Cellulase Activity is Affected More by Oxidation of Other Groups than Cellulose Reducing Ends - a Case of Enhanced Cellulose Recalcitrance without Change in Accessibility, Chain Length, or Crystallinity. Rajeev Kumar¹, Ashutosh Mittal, John Yarbrough, Jung Seokwon, Michael Himmel, Arthur Ragauskas and Charles E. Wyman
 - Characterization of GXMT1 reveals a new family of Co²⁺-dependent enzymes that catalyze the methylation of glucuronoxylan. Breeanna Urbanowicz¹, Maria J. Pena, Jason Backe¹, Malcolm A. O'Neill, Heather Flanagan Steet¹, Utku Avci, Hongja Li, Charles Wyman, Marcus Foston, Arthur Ragauskas and William S. York
 - Recalcitrance without Change in Accessibility, Chain Length, or Crystallinity. Rajeev Kumar, Ashutosh Mittal, John Yarbrough, Jung Seokwon, Michael Himmel, Arthur Ragauskas and Charles E. Wyman.
- High Barrier Films Made from Cellulosic Nanofibrils. Sharma, S.; Deng , Y.; Hu , Z.; Ragauskas, A.; Nair, S.S.; Zhu J., PaperCon., (April, 2013) Atlanta, GA.
- Pretreatment chemistry: What to expect and need. Ragauskas, A., 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013 (2013),
- Monitoring structural modification of biomass by small and wide scattering of X-ray and neutrons on oriented specimens. Nishiyama, Y.; Langan, P.; Foston, M.; O'Neill, H.; Pingali, S. V.; Horton, S.; Ragauskas, A., 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013 (2013),
- Computer simulation of pretreatment of lignocellulosic biomass in cellulosic ethanol production. Smith, J.C.; O'Neill, H.; Langan, P.; Pingali, V.; Urban, V.; Petridis, L.; Evans, B.; Lindner, B.; Schulz, R.; Ragauskas, A.; Foston, M.; Cheng, X., 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013 (2013),
- Influence of the deconstruction of the cell wall in the enzymatic saccharification of softwoods. Hoeger, I. C.; Nair, S.S.; Ragauskas, A.J.; Deng, Y.; Rojas, O.J.; Zhu, J., 245th ACS National Meeting & Exposition, New Orleans, LA, United States, April 7-11, 2013 (2013),
- Genome Science Program Contractor-Grantee Workshops, Washington (Feb. 2013):
 - Application of Chemical Imaging by TOF-SIMS to Understand Recalcitrance, Jung, S.; Foston, M.; Ma, T.;Mckenzie, H.L.;Tetard, L.; Passian, A.; Kalluri, U.; Tuskan, G.A.; Wyman, C.E.; Davison, B.H.; Sullards, C.; Ragauskas, A.J.; Gilna, P.

- Characterization of GXMT1 reveals a new family of Co²⁺-dependent enzymes that catalyze the methylation of glucuronoxylan. Urbanowicz, B.; Peña, M.J.; Backe, J.; O'Neill, M.A.; Li, H.; Wyman, C.A.; Steet, H.; Ratnaparkhe, S.; Gilbert, H.J.; Avci, U.; Foston, M.; Ragauskas, A.J.; Darvill A.G.; York, W.S.
 - PvMYB4-overexpression switchgrass yields very high cellulosic ethanol levels without pretreatment. Shen, H.; Poovaiah, C.R.; Ziebell, A.; Tschaplinski, T.J.; Pattathil, S.; Gjersing, E.; Engle, N.; Katahira, R.; Pu, Y.; Sykes, R.; Chen, F.; Ragauskas, A.J.; Mielenz, J.R.; Hahn, M.G.; Davis, M.; Stewart, Jr. C.N.; Dixon, R.A.
8. Investigation of fate of poplar lignin during auto hydrolysis pretreatment to understand the biomass recalcitrance. Samuel, R.; Cao, S.; Das, B.; Hu, F.; Pu, Y.; Ragauskas, A.J., 244th ACS National Meeting, Philadelphia, PA (Aug. 2012).
 9. 34th Symposium on Biotechnology for Fuels and Chemicals. New Orleans, (May 2012).
 - Assessing the cellulase accessibility of lignocellulosic substrate before and after pretreatment. Meng, X.; Foston, M.; Wyman, C.; DeMartini, J.; Ragauskas, A.
 - Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms, Li, H.; Kumar, R.; Pu, Y.; Ragauskas, A.J.; Wyman, C.E.
 - Impact of delignification of cellulosic biomass by common laboratory methods on lignin selectivity, cellulose molecular structure, and enzymatic digestibility. Kumar, R.; Hubbell, C.; Ragauskas, A.; Wyman, C.
 - Carbohydrates derived humins (pseudo-lignin) can retard cellulose biological conversion. Kumar, R.; Fan, H.; Sannigrahi, P.; Seokwon, J.; Ragauskas, A.J.; Wyman, C.
 - Investigation of lignin deposition on cellulose during hydrothermal pretreatment, its effect on cellulose hydrolysis, and underlying mechanisms. Li, H.; Kumar, R.; Pu, Y.; Ragauskas, A.J.; E. Wyman, C.E.
 - Extremely thermophilic bacteria exploit high temperature to deconstruct untreated plant biomass. Kataeva, I.A.; Foston, M.B.; Yang, S.-J.; Pattathil, S.; Biswal, A.K.; Poole II, F.L.; Olman, V.; Safford, T.D.; Lewis, D.L.; Doeppke, C.; Tschaplinski, T.; York, W.S.; Davis, M.; Mohnen, D.; Xu, Y.; Ragauskas, A.J.; Kelly, R.M.; Hahn, M.G.; Adams, M.W.W.
 - Understanding how cell wall differences in agave, poplar, and switchgrass affect deconstruction in pretreatment and enzymatic hydrolysis. Li, H.; Pattathil, S.; Foston, M.; Samuel, M.; Kumar, R.; Ragauskas, A.J.; Hahn, M.G.; Wyman, C.E.
 - Effect of pretreatments and enzymatic deconstruction on the surface of biomass: chemical image analysis. Jung, S.; Foston, M.; McKenzie, H.L.; Avci, U.; Ding, S.Y.; Kalluri, U.C.; Tuskan, G.; Hahn, M.; Wyman, C.; Ragauskas, A.
 10. Characterization of transgenic and wild whole biomass before and after pretreatment by 31P NMR. Ben, H.; Ragauskas, A.J.; Jiang, N., 243rd ACS National Meeting & Exposition, San Diego, CA, (March, 2012).
 11. Surface characterization of biomass (tension wood and pretreated poplar stem) by imaging mass spectrometry: 2D and 3D ToF-SIMS. Jung, S.; Foston, M.; McKenzie, H. L.; Ding, S.Y.; Kalluri, U.; Tuskan, G. A.; Wyman, C.E.; Ragauskas, A.J., 243rd ACS National Meeting & Exposition, San Diego, CA, (March, 2012).
 12. Pyrolysis of biomass to biofuels. Ben, H.; Ragauskas, A.J., 243rd ACS National Meeting & Exposition, San Diego, CA, (March, 2012).

13. Genomic Science Awardee, Meeting X, Bethesda, Maryland, (Feb., 2012)
- Characterizing the Mechanisms of Reduced Recalcitrance of Biomass, Ragauskas, A.
 - C Labeling and NMR Analysis: Critical Tools in the Development of Next Generation Biofuel Platforms. Foston, M.; Samuels, R.; Katahira, R.; Gjersing, E.; Davis, M.; McKenzie, H.L.; Wyman, C.E.; Ragauskas, A.J.
 - Down-Regulation of the Caffeic Acid *O*-methyltransferase Gene in Switchgrass Reveals a Novel Monolignol Analog. Tschaplinski, T.J.; Standaert, T.F.; Engle, N.; Madhavi Z. Martin, M.Z.; Sangha, A.K.; Parks, J.M.; Smith, J.C.; Samuel, R.; Pu, Y.; Ragauskas, A.J.; Hamilton, C.Y.; Fu, C.; Zeng-Yu Wang, Z.-Y.; Davison, B.H.; Dixon, R.A.; Mielenz, J.R.J.; Gilna, P.
 - Flowthrough Pretreatment to Characterize Biomass Deconstruction. McKenzie, H.L.; Wyman, C.E.; Foston, M.B.; Seokwon, J.; Ragauskas, A.; Engle, N.L.; Emory, J.F.; Tomkins, B.A.; Tschaplinski, T.; Tuskan, G.; Van Berkel, G.J.; Gilna, P.
 - Production and NMR Analysis of Deuterated Cellulose and Lignocellulosic Biomass and Its Utilization for Neutron Scattering Studies. Evans, B.R.; Foston, M.; Ragauskas, A.; O'Neill, H.M.; He, J.; Pingali, S.V.; Urban, V.; Langan, P.A.; Davison, B.H.
 - *In situ* Small-Angle Neutron Scattering and Computer Simulation Investigate Lignin Aggregation During Biomass Pretreatment. Petridis, L.; Pingali, S.V.; Urban, V.; Heller, W.T.; O'Neill, H.M.; Foston, M.; Ragauskas, A.; Evans, B.R.; Langan, P.A.; Smith, J.C.; Davison, B.H.
14. Ice templated xylan-nanocrystalline cellulose aero/hydrogels. Kohnke, T.; Theliander, H.; Ragauskas, A.J. , 243rd ACS National Meeting & Exposition, San Diego, CA, (March, 2012).
15. Lignin to Lipid Bioconversion by Rhodococci Bacteria. Kosa, M.; Ragauskas, A.J. 242nd ACS National Meeting & Exposition, Denver, CO (August, 2011).
16. Nuclear Magnetic Resonance Analysis of Deuterium Enriched Biomass. Foston, M.; McGaughey, J.; O'Neill, H.; Evans, B.R.; Ragauskas, A.J. 242nd ACS National Meeting & Exposition, Denver, CO (August 2011).
17. Use of Advanced NMR Analysis on Water-only Flow-through Pretreated and Enzymatic Deconstructed ¹³C Enriched Corn Stover. Foston, M.B.; McKenzie, H.L.; Wyman, C.E.; Ragauskas, A., 242nd ACS National Meeting & Exposition, Denver, CO (August, 2011).
18. Nuclear Magnetic Resonance and Small-Angle Neutron Analysis of Native and Deuterium Enriched Biomass. Foston, M.; Ragauskas, A.J.; McGaughey, J.; O'Neill, H.; Evans, B.R.; Pingali, S.V.; Urban, V.; Heller, W.; Myles, D. AIChE National Meeting, Minneapolis, MN (October 2011).
19. Cellulose Whiskers from the Forest. Ragauskas, A.J. TAPPI Intl Conference on Nano for Renewable Materials, Washington, DC (June 2011).
20. 33rd Symposium on Biotechnology for Fuels and Chemicals Seattle, WA (May 2011).

- Contribution of Thermal and Microbial Factors to Switchgrass Conversion by Caldicellulosiruptor Bescii. Kataeva, I.A.; Foston, M.; Pattathil, S.; Phuongan Dam, P.; Tschaplinski, T.J.; Doeppke, C.; Davis, M.; Ragauskas, A.J.; Hahn, M.G.; Xu Y.; Adams, M.W.
 - Monitoring the Effects of Hydrothermal Pretreatment on the Chemistry and Structure of Populus Trichocarpa to Identify Characteristics that Affect Digestibility. DeMartini, J.D.; Pattathil, S.; Avci, U.; Mazumder, K.; Foston, M.; Ragauskas, A.J. Hahn, M.G.; Wyman, C.E.
 - Analysis of ¹³C Enriched Corn Stover by Water-only Flow-through Pretreatment. Foston, M.B.; McKenzie, H.L.; Wyman, C.E.; Ragauskas, A.J.
 - Characterization of Lignin after Water-only Pretreatment. McKenzie, H.L.; Foston, M.B.; Tschaplinski, T.; Ragauskas, A.J. Wyman, C.E.
21. A Perspective on Pretreatment Chemistry: What We Know and Need to Know. Ragauskas, A.J. Pira 4th annual Biorefining for the Pulp and Paper Industry 2011, Barcelo Sants, Barcelona, Spain (May 2011).
 22. Genomic Sciences Contractor-Grantee Meeting IX/USDA-DOE Plant Feedstock Genomics for Bioenergy Awardee (2011):
 - Understanding Cellulose Structure by Michael F. Crowley, Marcus Foston, James F. Matthews, John Brady, Michael E. Himmel, Arthur J. Ragauskas, Paul Gilna
 - Investigation of the Fate of Lignin Structures of Poplar and Switchgrass during Various Pretreatments to Understand Its Impact to Biomass Recalcitrance by Y. Pu, S. Cao, R. Samuel, N. Jaing, M. Foston, M. Studer, C. Wyman, A.J. Ragauskas and P. Gilna
 - Redesigning Lignocellulosic Feedstocks: Genetic Modification of COMT in Switchgrass Significantly Reduces Recalcitrance and Improves Ethanol Production. Chunxiang Fu, Jonathan R. Mielenz, Xirong Xiao, Yaxin Ge, Choo Y. Hamilton, Miguel Rodriguez Jr., Fang Chen, Marcus Foston, Art J. Ragauskas, Joseph Bouton, Richard A. Dixon, Zeng-Yu Wang, and Paul Gilna
 23. Lignin-based Rigid Polyurethane Foam Filled with Cellulose Whiskers. Ragauskas, A.J.; Li, Y. 241st ACS National Meeting & Exposition, Anaheim, CA (2011).
 24. Cellulose Nanowhiskers as a Drug Delivery System. Dash, R.; Ragauskas, A.J. 241st ACS National Meeting & Exposition, Anaheim, CA (2011)
 25. Cellulose Nanowhiskers Hydrolyzed from Oxygen/Organosolv Agricultural Cellulose. Witayakran, S.; Anapanurak, W.; Kongtud, W.; Yoksan, R.; Ragauskas, A.J. 241st ACS National Meeting & Exposition, Anaheim, CA (2011).
 26. Comparison of Laboratory Delignification Methods, Their Selectivity, and Impacts on Physiochemical Characteristics of Cellulosic Biomass. Kumar, R.; Hubbell, C.A.; Ragauskas, A.; Wyman, C.E. 241st AIChE Annual Meeting, ACS National Meeting & Exposition, Anaheim, CA (2011).
 27. Refining BioRefining. Ragauskas, A.J. 2011 TAPPI International Bioenergy & Bioproducts Conference, Atlanta (2011).
 28. Catalytic Pyrolysis of Lignin for Bio-oils. Ben, H.; Ragauskas, A.J. 2011 TAPPI International Bioenergy & Bioproducts Conference, Atlanta (2011).
 29. Towards An Improved Understanding of the Effects of Dilute Acid Pretreatment on Poplar Lignin. Ragauskas, A.J.; Cao, S.; Pu, Y.; Studer, M., Wyman, C. TAPPI PEERS Conf. (October 2010).

30. Structural Modifications of Cellulose and Lignin in Loblolly Pine Arising from the Ethanol Organosolv Pretreatment. Sannigrahi, P.; Ragauskas, A.J.; Miller, S.J. TAPPI PEERS Conf. (October 2010).
31. Chemical Modification of Cellulose Nanowhiskers through Periodate Oxidation. Ragauskas, A.J.; Dash, R.; Elder, T. Georgia Life Science Summit 2010, Atlanta, GA (October 2010).
32. Chemical Image of Poplar Stem using Imaging Mass Spectrometry: ToF-SIMS and MALDI-MS. Jung, S.; Chen, Y.; Sullards, M. C.; Ragauskas, A. J. Georgia Life Science Summit 2010, Atlanta, GA (October 2010).
33. Novel Polyurethane Nanocomposite Foam Reinforced with Cellulose Whiskers. Li, Y.; Ren, H.; Ragauskas, A.J. Georgia Life Sciences Summit 2010, Atlanta, GA (October 2010).
34. Pyrolysis of Kraft Lignin at Different Temperature. Ben, H.; Ragauskas, A. J. Georgia Life Sciences Summit 2010, Atlanta, GA (October 2010).
35. Advances in the use of NMR to Characterize Biomass in an Effort to Elucidate the Nature of Recalcitrance. AIChE National Meeting, Salt Lake City, UT (2010).
36. Chemical Characterization of Poplar after Hot Water Pretreatment. Pu, Y.; Cao, S.; Studer, M.; Wyman, C.; Ragauskas, A.J., 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
37. Imaging Matrix-assisted Laser Desorption/ionization Mass Spectrometry (MALDI-MS) of Poplar Stem. Jung, S.; Chen, Y.; Sullards, C.; Ragauskas, A.J. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
38. Toward Understanding Fundamentals of Enzymatic Hydrolysis of Cellulose through a Restart Approach. Yang, B.; Pu, Y.; Ragauskas, A.J.; Shi, J.; Wyman, C. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
39. Investigating the Anatomical Features of Ethanol Organosolv Pretreated *Buddleja Davidii*. Hallac, B.; Ray, M.; Murphy, R.; Ragauskas, A.J. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
40. Recalcitrance: Will the Real Lignin Stand Up? Sannigrahi, P.; Kim, D.H.; David, K.; Ragauskas, A.J. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
41. A Perspective on Pretreatment Chemistry: What We Know and Need to Know. Ragauskas, A.J.; Pu, Y.; Jung, S. Foston, M.; Sannigrahi, S.; Ziebell, A.; Davis, M.; Chen, F.; Dixon, R.A.; Davison, B.H.; Studer, M.; Wymann, C. E. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
42. Biomass Characterization of Alamo Switchgrass. Hu, Z.; Ragauskas, A.J. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL (April 2010).
43. Copper-catalyzed Dehydration of Aldoximes into Nitriles at Room Temperature. Jiang, N.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
44. Direct Dissolution and NMR Analysis of the Plant Cell Walls via Perdeuterated Pyridinium-based Ionic Liquid. Jiang, N.; Pu, Y.; Ragauskas, A.J.; Samuel, R. 239th ACS National Meeting, San Francisco, CA (2010).
45. All About Biorefining. Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
46. ToF-SIMS Characterization of Chemical Differences on the Surface of *Populus Deltoid* between Different Treatments and Growth Stages. Jung, Seokwon; Sullards, M. Cameron; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).

47. Solid-state NMR Analysis of Changes in the Supramolecular and Ultrastructure of the Cellulose Fiber Wall in Poplar during Dilute Acid Pretreatment. Foston, M.B.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
48. Synthesis of Novel Cellulosics through Periodate Oxidation. Rajalaxmi, D.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
49. Rigid Polyurethane Foam Reinforced with Cellulose Nano Whiskers. Li, Y.; Ren, H.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA, United States, (2010).
50. Study Cellulase-cellulose Interaction using FRET. Wang, L.; Ragauskas, A.J.; Wang, Yi. 239th ACS National Meeting, San Francisco, CA (2010).
51. Biomass Characterization of Switchgrass for Biofuel Production. Hu, Z.; Pu, Y.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA,(2010).
52. Ethanol Organosolv Lignin: More than Just Boiler Fuel. Sannigrahi, P.; Ragauskas, A.J.; Miller, S.J. 239th ACS National Meeting, San Francisco, CA (2010).
53. Tango for Two: Biomass Recalcitrance - Enzymatic Deconstruction. Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
54. Chemical Characterization of Poplar during Dilute Acid Pretreatment. Pu, Y.; Studer, M.; Ragauskas, A.J. 239th ACS National Meeting, San Francisco, CA (2010).
55. Investing in Biorefining Today for Tomorrow's Opportunities. Ragauskas, A.J. Biorefining for the Pulp and Paper Industry, Pira, Stockholm (February 2009).
56. Effects of Two-stage Dilute Acid Pretreatment on the Structure and Composition of Lignin and Cellulose in Loblolly. Sannigrahi, P.; Ragauskas, A.J.; Miller, S.J., 31st symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA (May 2009).
57. Elucidation of Alfalfa Lignin Structures on Gene Down-regulation. Pu, Y.; Chen, F.; Dixon, R.; Davis, M.; Davison, B.; Ragauskas, A.J., 31st Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA (May 2009).
58. Biomass Characterization and Organosolv Pretreatment of *Buddleja Davidii*. Hallac, B.; Sannigrahi, P.; Pu, Y.; Ray, M.; Murphy, R.; Ragauskas, A.J., 237th ACS National Meeting, Salt Lake City, UT (March 2009).
59. New Energy: Fuel Resources from Kraft Pulping. Nagy, M.; Kosa, M.; Ragauskas, A.J.; Theliander, H., 237th ACS National Meeting, Salt Lake City, UT (March 2009).
60. Biomass Characterization of *Buddleja Davidii*: A Potential Feedstock for Biofuel Production. Hallac, B.; Sannigrahi, P.; Pu, Y.; Ray, M.; Murphy, R.; Ragauskas, A.J., 60th Southeastern Regional Meeting American Chemical Society, Nashville, TN (November 2008).
61. Unleashing Organosolv Lignin for Biofuels. Nagy, M; Britovsek, G.J. P.; Ragauskas, A. J., 236th ACS National Meeting, PA (2008).
62. Developing the New Lignocellulosic Energy Age. Ragauskas, A.J., 235th ACS National Meeting, New Orleans, LA (April 2008).
63. Modification of Linerboard Softwood Kraft Pulp with Laccase and Amino Acids. Witayakran, S.; Ragauskas, A.J., 235th ACS National Meeting, New Orleans, LA (April 2008).
64. Tying Cellulose Whiskers Together. Goetz, L.A.; Ragauskas, A.J.; Mathew, A.; Oksman, K., 235th ACS National Meeting, New Orleans, LA (April 2008).
65. Structural Characteristics and In Vitro Fermentation of Various Dietary Fibers by Pig Fecal Bacteria. Pu, Y.; Ziemer, C.; Ragauskas, A.J., 235th ACS National Meeting, New Orleans, LA (April 2008).

66. Path Forward for NanoBiomaterials Derived from Lignocellulosics. Ragauskas, A.J.; Rials, T.G.; Ashurst, R.W.; Cullinan, H.T.; Wegner, T.H.; Holbery, J.D., TAPPI International Conference on Nanotechnology for the Forest Products Industry (March 2006).
67. Tunable Solvents for Fine Chemicals from the Biorefinery. Eckert, C.A.; Liotta, Charles L.; Ragauskas, A.J.; Hallett, J.P.; Kitchens, C.L.; Hill, E.M.; Draucker, L.C., 232nd ACS National Meeting, San Francisco, CA (September 2006).
68. The Synthesis of Carbohydrates in Ionic Liquids. Zhang, J.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
69. Arboreal Nanotechnology. Ragauskas, A.J.; Rials, T.G.; Ashurst, R.W.; Cullinan, H.T.; Wegner, T.H.; Holbery, James D., 231st ACS National Meeting, Atlanta, GA (March 2006).
70. Probing Fiber-fiber Interfaces with Fluorescence Resonance Energy Transfer: Imaging Individual Fiber-fiber Crossings. Thomson, C.I.; Lowe, R.M.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
71. The Dynamic Change of Fiber during Extended Oxygen Delignification of SW Kraft Pulps. Zhang, D.; Pu, Y.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
72. Fiber Modification with Peroxide Bleaching on ECF Pulp. Dang, Z.; Elder, T.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
73. Green Chemistry One-pot Synthesis of 1,4-naphthoquinones and Related Structures. Witayakran, S.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
74. An Innovative Green Chemistry Methodology for Selective Aerobic Oxidation of Primary Alcohols. Jiang, N.; Ragauskas, A.J., 231st ACS National Meeting, Atlanta, GA (March 2006).
75. Fundamentals of Fiber Modification Chemistry. Ragauskas, A.J. Pu, Y., Allison, L., Pacifichem., HI (December 2005).
76. A Nano Perspective of Cellulose. Ragauskas, A.J., The Second Workshop on Regenerated Cellulose and Cellulose Derivatives, Karlstand University (November 2005).
77. New Value Streams from Residuals and Spent Liquor. Ragauskas, A.J., Fall TAPPI Technical Conference, Atlanta, GA (November 2004).
78. Ratiocination for Laccase Biobleaching of Recycled Paper. Knutson, K.; Ragauskas, A.J., 227th ACS National Meeting, Anaheim, CA (March 28-April 1, 2004).
79. Industrial Biotech Applications in the Pulp and Paper Industry. Ragauskas, A.J., World Congress on Industrial Biotechnology and Bioprocessing Orlando, FL (2004).
80. DBD A Palmary Approach to Fiber Modification. Vander Wielen, L.; Ragauskas, A.J., AIChE Annual Meeting, San Francisco, CA (2003).
81. Enzymatic Biobleaching of Recalcitrant Paper Dyes. Knutson, K.; Ragauskas, A.J., SERMACS, Atlanta, GA (2003).
82. Nanotechnology – Changing the Challenge in Pulp and Paper Research, presented at Nano All Around Us Conference, Ragauskas, A.J., The University of Wisconsin's Inaugural Technical Conference and Public Expo on Nanotechnology (2003).
83. Dielectric Discharge Initiated Grafting onto Cellulosic Fibers. Vander Wielen, L.; Ragauskas, A.J., Gordon Conference, Italy (May 2003).
84. Redefining the Pulp and Paper Industry with New Chemo-Enzymatic Technologies. Ragauskas, A.J., Gordon Polysaccharide Conference, Italy (May 2003).
85. Laccase: An Ancilla to Kraft Pulping. Dyer, T.; Kim, D.; Ragauskas, A.J., 225th ACS National Meeting, New Orleans, LA (2002).

86. Invigorating High Kappa Kraft Pulps with Laccase. Chandra, R.P; Ragauskas, A.J., 225th ACS National Meeting, New Orleans, LA (2002).
87. Parlaying Dielectric Breakdown Discharge for Fiber Modification. Vander Wielen, L.C., Ragauskas, A.J., 225th ACS National Meeting, New Orleans, LA (2002).
88. Modifying the Color of Recycled Paper with Laccase. Knutson, K.; Ragauskas, A.J., 224th ACS National Meeting, Boston, MA (2002).
89. Enhanced Environmentally Compatible Pulp Bleaching Chemistry. Yang, R.; Lucia, L.; Ragauskas, A.J.; Jameel, H., Intern. Conf. Organic Synth., Baltic Organicum Syntheticum, Vilnius, Lithuania (2002).
90. Applications of Lignin NMR Techniques for Wood Resins. Dyer, T.; Ragauskas, A.J.; Nilvebrant, N.-O., 223rd ACS National Meeting, Orlando, FL (2002).
91. Fiber Modification with Laccase: You Say You Want a Revolution? Chandra, R.P.; Wolfaardt, F.; Ragauskas, A.J., 223rd ACS National Meeting, Orlando, FL (2002).
92. Fundamental Delignification Chemistry of Laccase-Mediator Systems on High-Lignin Content Kraft Pulps-A Synopsis of Contributions. Chakar, F.S.; Ragauskas, A.J., 125th ACS National Meeting, San Diego, CA (2001).
93. Defining the Photostabilization Succor Properties of Acetylated Lignin. Ragauskas, A.J.; Pu, Y.; Lucia, L., 125th ACS National Meeting, San Diego, CA (April 2001).
94. Laccase-Lignin Oxidative Chemistry. Ragauskas, A.J.; Allison, L.; Chakar, F.S., International Chemical Congress of Pacific Basin Societies, Honolulu, HI (2000).
95. Parsing Laccase's Effect on Modifying Lignin. Chandra, R.; Ragauskas, A.J., International Chemical Congress of Pacific Basin Societies, Honolulu, HI (2000).
96. Structural Enhancement of Laccase-Lignin Reactions. Chakar, F.S., Ragauskas, A.J., 219th ACS National Meeting, San Francisco, CA (2000).
97. Provenience of Lignin Reactivity in Extended Oxygen Delignification, Lucia, L.; Ragauskas, A.J.; Yang, R., International Chemical Congress of Pacific Basin Societies, HI (2000).
98. Breaking the Oxygen Delignification Barrier: Lignin Reactivity and Inactivity. Lucia, L.A.; Boasman, A.; Ragauskas, A.J., 219th ACS National Meeting, CA (2000).
99. Insight into Laccase-Mediator Delignification of Softwood Kraft Pulps. Chakar, F.S.; Ragauskas, A.J., 1999 217th ACS National Meeting, Anaheim, CA (1999).
100. New NMR Applications for Old Spectroscopic Techniques: Detection of Lignin-Quinone Structures by ³¹P-NMR. Zawadzki, M.; Ragauskas, A.J., 217th ACS National Meeting, Anaheim, CA (1999).
101. Fundamental chemistry involved in chromophore removal of chemical pulps. Zawadzki, M.; Runge, T.; Ragauskas, A., 215th ACS National Meeting, Dallas (1998).
102. Analysis of residual lignin structure from modern pulping technologies. Froass, P.M.; Jiang, J.E.; Ragauskas, A.J., 211th ACS National Meeting, New Orleans, LA (1996).
103. Mercapto photostabilization mechanisms for mechanical pulp. Ragauskas, A.J.; Cook, C.M., 211th ACS National Meeting, New Orleans, LA (1996).

PROFESSIONAL SERVICES

Outside Professional Service

- Scientific Committee of the International Symposium on Lignocellulosic Materials, held in the context of the 13th International Congress on Science and Technology of Metallurgy and Materials, in Puerto Iguazu, Argentina (Aug. 2013)
- Convener (April 30), 35th Symposium on Biotechnology for Fuels and Chemicals, April 29-May 2, 2013, Portland, OR.
- ACS Session, Chair. American Chemical Society, Division of Cellulose and Renewable Materials, Improving Efficiency at Biorefineries, San Diego (2012).
- Organizing Committee, TAPPI International Conference on Nanotechnology for Renewable Materials, Washington (2011).
- ACS Session, co-Session Chair: Nanolignocellulosics, Honolulu, HI (December 2009).
- Participant for AFPA Forest Products Industry Technology Roadmap Workshop, held at IPST@GT (April, 2009).
- Organizing Committee, International Conference on Nanotechnology for the Forest Products Industry, Edmonton, Alberta (2009).
- International Pulp Bleaching Conference, Program Committee, Quebec, Canada (2008).
- ACS Session Presiding Chair, 2008 Engineering the Transition to the Bioeconomy, 235th ACS National Meeting, New Orleans, LA (2008).
- Organizing Committee, International Conference on Nanotechnology for the Forest Products Industry, St. Louis, MO (2008).
- Invited participant in Fourth Meeting of the U.S. and Sweden Science and Technology Committees, Invited by State Department, and presented a seminar titled “Forest Biorefinery A Contribution to the One Big Thing Fulbright Chair in Alternative Energy” (September, 2008).
- Invited participant in USA Embassy One Big Thing review and presented a seminar titled “Forest Biorefinery a Contribution to the One Big Thing Fulbright Chair in Alternative Energy” (September, 2008).
- Invited participant in Fulbright Grantee Day (October, 2008).
- Invited participant in Bioenergy Meeting at American Embassy, involving high-level forestry professionals and officials from Minnesota as part of their Nordic tour organized by the Blandin Foundation, Ragauskas reviewed research in US/Swedish biofuel technologies (October, 2008).
- Invited participant in Assistant Sec, DOE David Rodger visit to US Embassy, Stockholm for a review of Swedish companies contributing to One Big Thing (September, 2008).
- International Pulp Bleaching Conference, Program Committee, Quebec, Canada (2008).
- ACS Session Presiding Chair, 2008 Engineering the Transition to the Bioeconomy, 235th ACS National Meeting, New Orleans, LA (2008).
- Organizing Committee, International Conference on Nanotechnology for the Forest Products Industry, St. Louis, MO (2008).
- Organizing Committee, International Conference on Nanotechnology for the Forest Products Industry Knoxville, TN (2007).
- Organizing Committee/Session Chair TAPPI International Conference on Renewable Energy, Atlanta, GA (2007).

- Session Chair Pira International Fiber Engineering for Papermakers Conference, Stockholm, Sweden (2007).
- Invited participant to NSF Chemistry Workshop on Sustainability (2006).
- Session Co-Chair 28th Symposium on Biotechnology for Fuels and Chemicals, Nashville, TN (2006).
- ACS Session Co-Chair/Organizer, 2006 Topochemical Modification of Lignocellulosic Fibers, Atlanta, GA (2006).
- Session Chair Pira International Ultra-thin Films and Nanocoatings Conference, Vienna, Austria (2006).
- TAPPI International Conference on Nanotechnology for the Forest Products Industry, Program Committee Member and Session Chair (2006).
- Session Chair 2005 Pacifichem. Agrochemistry: Characterization, Photostabilization and Usage of Lignocellulosic Materials (2005).
- Pira International, Workshop Chair, Future Developments in Starch for Paper Manufacture, Atlanta, GA (2005).
- Program Committee Member for 2005 International Pulp Bleaching Conference, Stockholm (2005).
- Program Committee Member for Workshop on Cellulose and Cellulose Derivatives, Karlstad University, Karlstad, Sweden (2005).
- Program Committee Member GT-ORNL-ICL Biofuels – Biomaterials Program Review (Dec., 2004); Workshop (April, 2005); Strategic Review (June, 2005).
- Program Chair for Workshop on Defining the Opportunities, Challenges, and Research Needs for NanoBiomaterials Derived from Lignocellulosics, Atlanta, GA (September, 2005).
- Program Committee Member for Nanotechnology Workshop for the Forest Products Industry, Washington, DC (2004).
- Session Chair 2003 TAPPI Fall Technical Conference: Engineering, Pulping & PCE&I, Chicago, IL (October, 2003).
- Poster Session Chair, 2002 International Pulp Bleaching Conference, Portland, OR (2002).
- 11th International Symp. on Wood and Pulping Chemistry, Nice, France, Session Chair (2001).
- 10th International Symp. on Wood Chemistry and Pulping, Japan, Session Chair (1999).
- 1998 International Symposium on Emerging Technologies of Pulping and Papermaking of Fast-Growing Wood, Session Chair, South China University of Technology, P.R. China (1998).
- 1997 TAPPI Biological Sciences Symposium, San Francisco, CA (1997).
- 211th American Chemical Society National Meeting, New Orleans, Cellulose, Paper and Textile Division, Session Chair (1996).

Editorial Advisory Board Service

- Global Journal of Organic Chemistry (2010-current)
- Journal of Petroleum & Environmental Biotechnology (2010 – current)
- The Open Biotechnology Journal (2009-current)
- Journal of Biobased Materials and Bioenergy (2009-current)
- Journal of Petroleum Technology and Alternative Fuels (2010-current)
- Journal Wood Chemistry and Technology (2000-current)
- Journal of Pulp and Paper Science (2000-2008)

- Holzforschung (2003-current)
- Biofuels (2009-current)
- Biofuels, Bioproducts and Biorefining (2007-current)
- Industrial Biotechnology (2007-current)
- BioEnergy Research (2007-current)
- Sustainability (2009-current)
- Journal of Chemical Technology and Biotechnology (2009-current)
- TAPPI Journal (2010-present)
- Frontiers in Cellulose Biotechnology/Frontiers in Biotechnology (2011-current)
- Current Biotechnology (2011 – current)
- Energies (2011 – current)
- ISRN Chemical Engineering (2011 -)
- Organic Chemistry: Current Research (2011 -)
- ChemSusChem (2011 -)
- Open Journal of Organic Polymer Materials (2012 -)
- Physiobiochemical Metabolism (2012 -)
- Modern Research in Catalyst (2012 -)
- Technologies (2012 -)
- International Journal of Bioorganic Chemistry & Molecular Biology (2012 -)
- Emirates Journal of Food and Agriculture (2012 -)
- Energy Conversion and Management (2013 -)
- GSTF Journal of Chemical Science (JChem; 2013 -)
- Academic and Scientific Publishing (2013 -)
- Microscopy Research (2013 -)
- Journal of Materials Science and Engineering with Advanced Technology (2013 -)
- J Sci Med Chemistry (2013 –)
- Frontiers in Energy (2013 -)
- Review Editorial Board of Frontiers in Bioenergy and Biofuel (2013 -)

National/International Funding Review Panels and Committees

- Natural Sciences and Engineering Research Council of Canada
- GA One Stop Shop
- Canadian Foundation for Innovation
- Consortium for Plant Biotechnology Research Incorporated
- United States Department of Agriculture
 - National Research Initiative Competitive Grants Program (NRI)
 - Small Business Grants
- National Science Foundation
- Department of Energy
- ACS - Petroleum Research Fund
- ARPA-E
- Louisiana Board of Regents Support Fund
- Kansas Bioscience Eminent Scholars Program Review

- Austrian Science Fund
- European Commission Research Directorate-General Invitation to the evaluation of proposals to "Quality of Life and Management of Living Resources" RTD program (2001).
- J. Paul Getty Museum/Foundation to review research needs for photostabilization technologies/protocols for the Great Masters museum holdings (2002).
- National Renewable Energy Laboratory, Golden, CO, Stage-Gate Program review of Cellulose/Hemicellulose Biorefiner Research Programs
- U.S. Civilian Research and Development Foundation
- National Nanotechnology Committee for Forest Products Industry
- National Research Foundation, South Africa
- Swedish The Knowledge Foundation: The KK-foundation
- Swedish Foundation for Strategic Research - Strategic Research Centres
- VINN Excellence Center/Swedish Agency for Innovation Systems
- Finnish Academy of Science
- VTT Technical Research Centre of Finland, Clean world Program
- Netherlands Organization for Scientific Research
- Norway Research Council
- The Technology Foundation STW
- ERA Chemistry
- Israel Science Foundation's FIRST: Focal Initiatives in Research in Science and Technology
- BARD: The United States - Israel Binational Agricultural Research and Development Fund
- Swiss National Science Foundation
- Singapore Agency for Science, Technology and Research
- UBC Center Review Committee for Pulp and Paper Center, Canada
- Agence Nationale de la Recherche, France
- Danish National Advanced Technology Foundation
- Danish Council for Strategic Research.
- National Research Foundation, South Africa
- Romanian National Council for Scientific Research
- King Fahd University of Petroleum & Minerals, Saudi Arabia
- TEKES Strategic Centres for Science, Technology and Innovation (*SHOK*) Program, Forest Cluster, Finland
- OTKA - Hungarian Scientific Research Fund
- Chair of CONICYT and Academy of Finland Sustainable Energy review panel in Santiago, Chile

Journal Reviewer:

- Carbohydrate Research, Carbohydrate Polymers, Canadian J. Chemistry, J. Organic Chemistry Nature, Science, Tetrahedron Letters, Organic Letters, Cellulose, Journal of Photochemistry and Photobiology, A: Chemistry, Langmuir, Green Chemistry, Energy Environmental Science, Bioresource Technology, BioEnergy, BioFuels, BioFuels Journal, BioFuels, Bioproducts and Biorefining, Biomass and Bioenergy, ChemSusChem, , Energy and Fuels, Fuels, Nature,

Science, J. Am. Chem. Soc., Angewandte Chemie International Edition, eXPRESS Polymer Letters

- Enzyme and Microbial Technology, Applied Microbiology Biotechnology, Biotechnology Letters, Industrial Biotechnology, Applied Biochemistry and Biotechnology
- Industrial & Engineering Chemistry Research, Journal of Applied Polymer Science,
- Holzforschung, Nordic Pulp & Paper Research Journal, Journal of Pulp and Paper Science, Journal of Wood Chemistry Technology, Tappi Journal

Membership in Professional and Honor Societies:

- American Nano Society (2011-present)
- Invited International Academy of Wood Science (2003-present)
- National Academy of Science, Committee Member for Technologies to Deter Currency Counterfeiting (2005-06)
- American Association of the Advancement of Science (2005-present)
- The Society Of Chemical Industry (2011-present)
- American Chemical Society (1985-present)
 - Cellulose, Paper and Textile Division (1991-present)
 - Assistant Program Chair (1996-98)
 - Student Activities Chair (1996-98)
- TAPPI – Technical Association of Pulp and Paper Industry (1993-present)

DIVISION COMMITTEES

Pulp Manufacture Division

	<u>Effective Date</u>	<u>Thru Date</u>	<u>Position</u>
Alkaline Pulping and Bleaching Committee	9/2/1997		Member
Alkaline Pulping Committee	9/2/1997	5/14/2007	Member
Color Stabilization Subcommittee	5/4/1998	5/14/2007	Member
Pulp Bleaching Committee	9/2/1997	5/14/2007	Member
Wood Chemistry and Biotechnology	5/26/1995	8/2/2009	Member

Independent Technical Committee

Biochemical/Yeast & Microorganisms	10/29/2009		Member
Biorefinery Committee	1/2/2009		Member
International Research Management Committee	9/8/2009		Member
Paper Physics Committee	6/7/2004		Member
Thermochemical/Chemical Catalytic	10/29/2009		Member

Nonwovens Division

Nonwovens Binders and Additives Committee	2/1/2000		Member
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Communities

Nanotechnology Steering Committee	9/1/2004		Member
Renewable Energy Conference Committee	2/6/2007	1/7/2009	Member

Board Committees

TAPPI Journal Editorial Board	4/21/2010		Member
TAPPI Past & Current FELLOWS	3/1/2004		Member

LOCAL SECTION COMMITTEES

Southeastern TAPPI

2/2/2000

8/31/2000 Member

- PAPTAC - Pulp and Paper Association of Canada (2000-2003).

Departmental/Campus Committee

- School of Chemistry and Biochemistry
 - Graduate Committee (2003-2005)
 - Safety Committee (2005-2007)
 - Chemistry Development Committee (2007-present)
 - Chemistry Service/Space Committee (2009-present)
 - Chemistry Undergraduate Program Committee (2013 – present)
- GA Tech area tenure committee (2010)
- GA Tech-Imperial-ORNL committee for development of collaboration research/educational programs in Biopower/BioFuels/Biomaterials (2004-present)
- Defining and Supporting Interdisciplinarity: External Research Collaborations (2007)
- GA Tech GRA Eminent Scholar in Energy Sustainability Search Committee (2007)
- Institute of Paper Science and Technology@GT
 - Paper Science Engineering Graduate Committee (2003-present)
 - Gunnar and Lillian Nicholson Graduate Fellowship and Faculty Exchange Program (Chair, 2003-present)
 - IPST-GT curriculum integration (2003)
 - Chaired IPST@GT Faculty Retreat (2008)

ACADEMIC ACCOMPLISHMENTS

Ragauskas Pedagogical Prizes Awarded

- GT Thank a Teacher Certificate (2011)
- 1999 IPST President's Award for Education
- 1999 Teacher of the Year, selected by IPST graduate students

Student Awards Achieved under Ragauskas' Supervision

- James E. Sealey II Best IPST Ph.D. Student – 1997
- Troy M. Runge Best IPST Ph.D. Student – 1998
- Fadi S. Chakar Best IPST Ph.D. Student – 1999
- Fadi S. Chakar Best Poster at Int. Pulp Bleaching Conference – 2000.
- Fadi S. Chakar ACS Graduate Student Award – 2000
- Richard Chandra ACS Graduate Student Award – 2003
- Lorraine Vander Wielen Best IPST Ph.D. Student – 2004
- Qining Sun GT Research and Innovation Conference, IPC Foundation Innovation Award - 2013

Teaching Accomplishments

Undergraduate and graduate courses developed and presented:

GA Tech: FY 2003 - present

- Organic Chemistry II/Georgia Institute of Technology Chemistry 2312
- Spectroscopy in Organic Chemistry 6222/5020
- Pulping and Bleaching Chemistry: Georgia Institute of Technology Chemistry 8833A
- Biorenewable Polymers: Georgia Institute of Technology Chemistry 8833A: 86996

Guest GA Tech Professor

- The Science of Alternative Energy: GT Chem. 2803 HP1

IPST: FY 1989 - 2002

- Introduction to Organic Chemistry/IPST CHEM 5020
- Carbohydrate Chemistry/IPST CHEM 6221
- Lignin Chemistry/IPST CHEM 6220
- Spectroscopy in Organic Chemistry/IPST CHEM 6222
- Advanced Pulping and Bleaching Chemistry/IPST CHEM 6223

INVITED TEACHING VISIT - CHALMERS UNIVERSITY OF TECHNOLOGY (2001)

Dr. Ragauskas was invited by the Department of Forest Products and Chemical Engineering, Chalmers University of Technology (Goteburg, Sweden), to present a 2-credit graduate course on pulping and bleaching titled: Fiber Line Bleaching, Department of Forest Products and Chemical Engineering.

Course Summary: The course is directed at reviewing recent developments in advanced pulp bleaching. Students are introduced to advanced concepts in lignin/carbohydrate structure and pulp bleachability. State-of-the-art pulp bleaching equipment, chemistry, and environmental issues are explored.

Course Objectives:

1. To provide a review of how lignin/carbohydrate structure influences pulp bleachability.
2. To establish the relationship between basic pulp bleaching chemistry and modern bleach plant operations.

FULBRIGHT TEACHING ACCOMPLISHMENTS (2008-09)

During my Fulbright tenure at Chalmers University of Technology, I participated in several classes on alternative energy and the forest biorefinery, including:

KBT145: Biorefinery

- **Aim:** Within the next 50 years we will see a gradual transition from an oil based society to a biobased society. In this transition there will be a necessity to find new process routes to produce some of the materials used today as well as new materials that can replace some of the materials normally used today. The aim of this course is to give basic knowledge needed to understand how biomaterial can be used and how different biorefinery concepts can be developed based on both environmental and economical criteria.
- **Learning outcome:** After this course the students should have knowledge in: The chemical composition of the most common sources of biomaterial; methods of extracting components; the most important chemical reactions; the most common processes for extracting components and post treatment of extracted materials.

KBT130: Cellulose Technology

- **Aim:** The purpose of the course is to give the students knowledge of the different processes for paper pulp production from wood. Some important operations are highlighted in the laboratory sessions (kraft pulping, bleaching and mechanical pulp production). In a minor project work, the students are introduced to a flow-sheeting program.
- **Learning outcome:** Describe the macroscopic and morphological structure of wood and give a basic description of the chemical structure of the wood constituents (cellulose, hemicelluloses, lignin and extractives). Understand the conversion technologies used to convert wood to sulfite and sulfate chemical pulps in an environmentally compatible manner.

Both courses were offered in the Chemical Engineering Department.

In addition, I presented teaching material to students at Forest Products Industry Research College (FPIRC).

- Forest Biorefineries Bridge to Future: FPRIC Sweden (August, 2008).
- US Perspective on Biorefinery, Royal Institute of Technology, Stockholm (January, 2009)

GUEST CLASS SEMINARS:

- The BioRefinery: The Next Green Revolution in Science, Engineering and Innovation, Berzeliusdagarna, (Top Swedish High School Science Students) University of Stockholm (January, 2008)
- Biomass-Biofuels-Biomaterials, Mill Creek High School in Hoschton, GA on May 18th 2007 (Note: 1-day presentations to grade 10 students on the fundamentals of biomass, biofuels, and conversion chemistry-biochemistry)
- Future of Integrated Biofineries, GA Tech Honors Energy Class (September, 2006).
- GA Tech- Chem. 2803 HP1 - The Science of Alternative Energy (2010)
- Course Description: This course will give a general overview of the most popular alternative energy sources which are currently being used or developed to help relieve the world dependence on fossil fuels. The basic scientific principles governing the current and future approaches in solar photo-voltaics, fuel cells, biomass conversion, nuclear energy and wind power will be presented. Though the course will focus on the basic principles and fundamental science underpinning the current advancements in energy technologies, there will also be an emphasis on understanding the efficiency and general sustainability issues associated with the most popular alternate energy options.

GRADUATE AND UNDERGRADUATE STUDENTS SUPERVISED:

Undergraduate Students

- A.J. Cesternino GA State, Chemistry Department (1992)
- J. Szweg GA State, Chemistry Department (1993)
- C. Qui Clark Atlanta University, Chemistry Department (1994)
- D. Johnson Clark Atlanta University, Chemistry Department (1996)
- V. Goel Emory University, Chemistry Department (2000)
- S. Anderson Clark Atlanta University, Chemistry Department (2001)
- S. Krizan Chemical Engineering, McMaster University (2002)

- G. K. Feld School of Chemistry and Biochemistry, GA Tech (2005-06)
- J. Slady School of Chemistry and Biochemistry, GA Tech (2005-06)
- N. Cheluka Department Paper Technology, Indian Institute of Technology, (2006)
- A. Zetili Chemistry Department, Jacksonville State University, AL (2006)

M.S. Graduate Supervising Activities

Student and Research Topic/Report	Graduation Date	Post-Graduate Position
Peter M. Froass	1993	IPST Ph.D.
Brian Boyer	1993	Patent Lawyer
Eric J. Draheim	1994	Kimberly-Clark Corporation
Fadi Chakar	1995	Appleton Papers Inc.
Coray Harper	1995	GE Company
Thomas Bales	1996	Booz Allen and Hamilton
John Werner	1999	Kimberly-Clark Corporation
Andrew Kulchin	2000	Samoa Pacific Cellulose
Daniel Johnston	2001	UPM
Jason Montegna	2002	IPST graduate
Kendric Nelson	2002	IPST graduate
W. Widiatmoko (ChBE)	2006	April, Indonesia

Tech Co-Supervisor Research Accomplished in Ragauskas Laboratory

Asmeron Hagos – Visiting student	1998	GA Tech Ph.D. graduate
Magnus Melander – Visiting;Licentiate Student	1998-1999	Stora-Enso

Ph.D. Students Supervised	Graduation Date	Post-Graduate Employment
Peter M. Froass	1997	International Paper
David Barzyk	1997	Georgia Pacific Company

Jim Sealey	1998	First Quality
Troy Runge	1998	University of Wisconsin
Kaaren Haynes	1999	Hollingsworth & Vose, Co.
Michael Zawadzki	1999	Lorillard Tobacco Co.
Fadi S. Chakar	2000	Appleton Ideas Company
Richard Chandra	2003	University of British Columbia
Lorraine C. Vander Wielen	2004	Appleton Ideas Company
Thomas Dyer	2004	Kimberly Clark Corporation
Kristina Knutson	2004	GA Tech Post Doctoral Fellow
Bassem Hallac	2011	HCI Cleantech
Mate Nagy	2009	Hollingsworth & Vose, Co.
Suteera Witayakran	2008	Kasetsart University
Dongcheng Zhang	2006	Agrivida
Rob Lowe	2007	Nalco Company
Cameron Thomson	2007	MeadWestvaco
Zheng Dang	2007	American Process
Zhoujian Hu	2012	Postdoc Fellow NCSU
Yang Li	2012	Research Associate at NanoTech Institute at University of Texas
Kósa Mátyás	2012	Renmatix
Dash Rajalaxmi	2012	KCC
Lee Goetz	2012	Contact Technologies, Inc.
Seokwon Jung	2012	Post Doctoral Fellow GT

Amit Saxena	2013	Post Doctoral Fellow, India
Ben Haoxi	2013	Post Doctoral Fellow, NREL

Current GA Tech Doctoral Chemistry Students Supervised

	Proposed Graduation Date
• Shaobo Pan	2015
• Tyrone Wells	2013
• Mikhail Levit	2013
• Fan Hu	2014
• Qining Sun	2015
• Meng Xianzhi	2015
• Allison Tolbert	2016
• Hannah Akinosho	2016
• Mark Cannatelli	2016

Ragauskas Invited as Public Ph.D. Examiner/Opponent

- Invited by Professor H. Theliander/Chalmers University of Technology, to be an external opponent to the Ph.D. defense of Kristoffer Lund titled “Pulp fibres in absorption applications Modifications and properties (March, 2013)
- Invited by Professor G. Gunnar Henriksson to be an external opponent to the Ph.D. defense of Dimitri Areskoghs thesis title “Structural Modifications of Lignosulphonates ” at the Royal Institute of Technology, School of Chemical Science and Engineering, Stockholm, Sweden (May, 2011).
- Invited by Professor J. Saddler, University of British Columbia, Canada to be member of external reviewer board for Ph.D. thesis by Seiji Nakagame, titled “The Influence of Lignin on the Enzymatic Hydrolysis of Pretreated Biomass Substrates.” (September, 2010).
- Invited by Professor Eva Malmström, Royal Institute of Technology, Fibre and Polymer Technology, Stockholm, Sweden KTH as member of external reviewer board for Ph.D. thesis by Hanna Lönnberg, titled “Ring-Opening Polymerization from Cellulose for Biocomposites Applications.” (June, 2009).
- Ph.D. opponent for Ali Moosavifar, thesis titled: “Lignin Extraction from Black Liquor: Properties of the Liquors and Sulphur Content in the Lignin”, Chalmers University of Technology, Forest Products and Chemical Engineering Dept Chemical and Biological Engineering (September, 2008).
- Participated in PhD defence of Henrik Wallmo, thesis titled “Lignin Extraction from Black Liquor: Precipitation, Filtration and Washing”; and PhD defence of Johannes Bogren, thesis titled “Further Insights into Kraft Cooking Kinetics,” Chalmers University of Technology, Forest Products and Chemical Engineering Dept Chemical and Biological Engineering (October/November, 2008).

- Invited by Professor Kristina Oksman as opponent for Ph.D. thesis by L. T. Petersson, titled “Biopolymer-Based Nanocomposites – A Comparison between Renewable Cellulose Reinforcements and Layered Silicates” Department of Engineering and Design and Materials, Norwegian University of Science and Technology (2007).
- Invited by Associate Professor J.F. Kadla as external reviewer for Ph.D. thesis by Yong Sik Kim titled “Study of Polyoxometalate (POM) Reaction Mechanism and Kinetics with Lignin and Model Compounds” Department of Forestry, University of British Columbia (2007).
- Invited by Professor W.F. Boman to be external opponent to Licentiate defense of Lotta Utterberg, thesis title “Oxidative Degradation of Diastereomers of β -O-4 Lignin Model Compound and Heterologous Expression of *Trametes versicolor* Laccase” at Karlstad University, Karlstad, Sweden (2006).
- Invited by Professor G. Gellerstedt to be an external opponent to the Ph.D. defense of Waleed Wafa Al-Dajani, thesis title “Bleachability of Alkaline Pulps” at the Royal Institute of Technology, Department of Pulp and Paper Chemistry and Technology, Stockholm, Sweden (2001).
- Invited by Professor R. Ede to be external opponent to the Ph.D. defense of Nicole More, thesis title “Structural Changes to *Pinus Radiata* Wood Lignin during Kraft Pulping and Bleaching” at the University of Waikato, Chemistry Department, Hamilton, New Zealand (1999).
- Invited by Professor G. Gellerstedt to be an external opponent to the Ph.D. defense of Eva Johansson, thesis title “The Effect of Oxygen on the Degradation of Lignin Model Compounds and Residual Lignin” at the Royal Institute of Technology, Department of Pulp and Paper Chemistry and Technology, Stockholm, Sweden (1997).

Postdoctoral Research Fellows Supervised by Ragauskas

Postdoctoral Fellow	Period of Residence	Current Status
Dr. D. Santiago	1993-94	Research Scientist, FDA
Dr. L. C. Harvey	1993-94	Associate Professor Agnes Scott College
Dr. X. Pan	1992-95	Researcher Alberta Research Council
Dr. J. Brambila	1994-95	--
Dr. M. Hogjat	1994-95	--
Dr. C. Cook	1995-97	Researcher, Oxychem, NY
Dr. W. Lin	1996-97	Researcher, NREL, CO
Dr. B. Dhasmana	1997-98	Assistant Professor Halifax Community College, NC

Dr. C. Li	1997-99	Research Supervisor, Selecto Inc.
Dr. P. Agrawal	1998-99	ACS Abstract Services
Dr. A. Boasman	1999-2000	SP Newsprint Co.
Dr. R. Yang	1999-2001	IPST@GT Research Services
Dr. Y. Pu	2000-current	IPST@GT
Dr. D. Kim	2002-current	IPST@GT
Dr. Z. Feng	2001-2003	Researcher, McMaster University
Dr. Q. Hoe	2003-2004	Professor and Director of Tianjin Key Laboratory of Pulp & Paper Engineering, Tianjin University of Science and Technology, Tianjin, China
Dr. E. Johansson	2004-2005	Sweden Consultant
Dr. K. Knutson	2005-2008	Gwinnett Technical College
Dr. J. Zhang	2004-2010	
Dr. J. Nan	2004-2011	Baze Chemical.
Dr. R. Ou	2005-2006	GT – MSE
Dr. W. Ban	2006	Assistant Professor, Dalian Institute of Light Industry, Dalian, China
Dr. P. Sannigrahi	2006-2011	Conoco Phillips
Dr. K. David	2007-2011	Postdoctoral Fellow, CAU
Dr. R. Samuel	2008-current	Chemistry, GA Tech
Dr. H. Li	2008	Chemistry, CAU,
Dr. M. Foston	2008-2012	University of Washington, Assist Prof
Dr. C. Hubble	2009-current	Ciba
Dr. L. Wang	2009-2011	FDA

Dr. C. Shilin	2009-current	Chemistry, GA Tech
Dr. G. Hu	2010-2011	Postdoctoral Fellow, CAU
Dr. C. Cateto	2010-2012	Consultant, France
Dr. F. Hunang	2010-current	Chemistry, GA Tech
Dr. S. Nair	2012- current	Chemistry, GA Tech/FPL USDA
Dr. G. Bali	2012 – current	Chemistry, GA Tech
Dr. J. Seokwon	2013 – current	Chemistry, GA Tech

VISITING RESEARCHERS/STUDENTS

Researcher	Visiting Date	Current Status
Dr. S. Moe	1996-97	Associate Professor, Norwegian University of Science and Technology, Norway
Dr. M. Paulsson	1997-98	Researcher Eka Chemicals, Sweden
Dr. A. Suurnakki	1999	Researcher, VTT, Finland
Dr. D.H. Kim	1999-current	Researcher, IPST
Martin Lund Visiting student	2001	The Royal Veterinary and Agricultural University Chemistry Department, Denmark
Dr. F. Wolfaardt	2001	Research Officer Department of Microbiology and Biochemistry, University of Orange Free State, South Africa
Dr. S. Wang	2001	Professor, Depart. Bio-Technology Sugar Engineering Industry, Guangxi University, Nanning, Guangxi, China
Dr. P. Gatenholm	2005-06	Professor, Department of Materials and Surface Chemistry, Chalmers University of Technology,

		Gothenburg, Sweden
A. Oudia	2005	Graduate Student, Departamento de Ciência, Universidade Beira Interior, Covilhã Portugal
Dr. C. Mohandass	2006-07	Biological Oceanography Division National Institute of Oceanography Dona Paula, Goa-403004, India
Dr. J. Yan	2007	Department of Pulp and Papermaking, Guangdong Industry Technical College, Guangzhou 510300, P.R. China
Assist. Prof. N. Brosse	2008	Laboratoire d'Etude et de Recherche sur le Materiau Bois, Faculté des Sciences et Techniques, Nancy- Université, Bld des Aiguillettes, F- 54500 Vandoeuvre-lès-Nancy, France
Carolina Jardim, Visiting student	2008-2009	Química da Madeira e Branqueamento Da Celulose, Laboratório de Celulose Papel Departamento de Engenharia Florestal Universidade Federal de Viçosa - MG Brasil
Elisabetta Aracr Visiting student	2009	Universitat Politècnica de Catalunya School of Industrial Aeronautic Eng. of Terrassa, Depart. Textile and Paper Engineering, Campus de Terrassa, Edifici TR4. C/Colom, 11. 08222 Terrassa, Spain
Wenjia Han Visiting student	2010	State Key Laboratory of Pulp and Paper Engineering, College of Light Industry & Food Sciences, South China University of Technology, Guangzhou, Guangdong Province, China
Yangmei Chen Visiting student	2010	State Key Laboratory of Pulp and Paper Engineering, College of Light Industry & Food Sciences, South China University of Technology, Guangzhou, Guangdong Province, China

Christopher M. Conifer	2011	School of Chemistry Imperial College London London, England
Dr. Tobias Köhnke	2011-2012	Assistant Professor Chalmers University of Technology
Prof. Birinchi Kumar Das	2011-2012	Fulbright-Nehru Senior Res. Fellow Gauhati University, India
Dr. Monideepa Chakraborty	2011-2012	Fulbright-Nehru Senior Res. Fellow Gauhati University, India
Yandan Chen	2011-2012	Fujian Agriculture and Forestry University, China
Guo Chen	2011-2012	Department of Bioengineering and Biotechnology, Huaqiao University, Jimei AVE. 668, Xiamen, 361021, China
Jiebin Tang	2011 – 2012	China
Magdalena Parra Carrillo	2012	GENZ: Grupo de investigacion Enzimologia, Departamento de Bioquimica y Biologia Molecular-A Universidad de Murcia E-30071 Murcia, Spain
Qianjun Shaw	2012-13	Professor, National Engineering Research Center of Wood-based Resource Utilization, China Dean of Undergraduate Academic Affairs, Zhejiang A&F University, P.R. China
Yiming Zhou	2012-13	Ms. Yiming Zhou State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou, P. R. China
Zhen Wei	2012-13	College of Environmental Science and

Engineering Hunan University No.2,
Changsha, Hunan, 410082, P.R. China

General Public Articles: Our biorefinery studies have been highlighted by +500 news agencies announcements. This outreach provides a touchstone from which students, the general public and business/policy makers can be engaged in the science and engineering of renewable energy and materials.

For additional details, see

http://www.ipst.gatech.edu/faculty_new/faculty_bios/ragauskas/ragauskas_news_articles.html

- Georgia's first wood-to-ethanol plant opens, in Atlanta Business Chronicle - by Dave Williams (Aug., 2010)
- Going Green with Sweden Should Boost U.S.
- According to Reuters Special Topics analysis on Biofuels, one of the most-cited papers in the Research Front Map on Ethanol Biofuels is "The Path Forward for Biofuels and Biomaterials" (Ragauskas AJ, et al., Science 311[5760]: 484-9, 27 January 2006). For more information see:
 - <http://sciencewatch.com/sciencewatch/ana/st/biofuels/08octSTbioRag/>
- GA Tech Fulbright Announcement
- Ragauskas Award in GA Tech, The Whistle Vol. 33, No. 20, June 2, 2008
- Dr. Art Ragauskas Wins Prestigious Research Management Award
- Fulbright Distinguished Chair in Alternative Energy Technology/TAPPI News
- CSREES NRI Grant Recipient Receives Fulbright Award
- Georgia Pines May Play Role in Fuel of the Future
- Advancing the Kraft BioRefinery in Biomass Magazine - Oct 2007
- Update of Biomass to Biofuels Research: GA Tech - Ragauskas
- Ragauskas Nanobioterials in Process Nordic
- Georgia Tech Part of New Biofuel Research Center

TV/Radio Interviews

- News interview on GA PBS: "Georgia Weekly" Biofuels - Alternative Energy is Big Business these Days and Biofuels are Receiving a Lot of Attention. Dr. Arthur Ragauskas, Professor, Georgia Tech School of Chemistry and Biochemistry
 - See http://www.ipst.gatech.edu/faculty_new/faculty_bios/ragauskas/news_articles/georgia_weekly.html
- NBC News Footage of Art Ragauskas on the Subject of Biofuels from Wood Pulp

- See http://www.ipst.gatech.edu/faculty_new/faculty_bios/ragauskas/ragauskas_news_articles.html