Lakehead UNIVERSITY

t: (807) xxx-xxxx
@lakeheadu.ca

20 Mar 2015

Dr. Todd Randall
Acting Dean
Faculty of Science and Environmental Studies

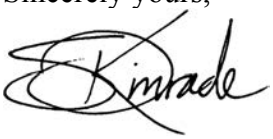
Dear Dr. Randall:

The Department of Chemistry has voted in favour of recommending *Adjunct Professor* status in our department for the following candidates.

- Roxanne Deslauriers, PhD (Scientific Director, Thunder Bay Regional Research Institute)
- Lew Christopher, PhD (Director, Biorefining Research Institute)

Please find their application packages attached.

Sincerely yours,



Stephen D. Kinrade, PhD, FRSC(UK)
Professor and Acting Chair

Biorefining Research Institute (BRI)
1294 Balmoral St., Thunder Bay ON P7B 5E1
t: (807) 343-8844 f: (807) 343-8240
e: lchristo@lakeheadu.ca

March 16, 2015

SES Faculty Council
Lakehead University

Application for Adjunct Status in Chemistry

Herewith I would like to apply for Adjunct Status at the Department of Chemistry. Success in this application would help me as Director of the Biorefining Research Institute (BRI) at Lakehead University gain access to the graduate programs of Chemistry, and potentially recruit students interested in obtaining graduate degrees in Chemistry and Materials Science (PhD) and Chemistry (MS) while working on BRI-related research projects. I trust that the above would be mutually beneficial to both the Chemistry Department and BRI.

BRI is a multidisciplinary, research-intensive center that utilizes the knowledge and expertise of faculty, researchers, and students from several academic units at Lakehead University, including Chemistry. BRI actively supports undergraduate and graduate programs at Lakehead University, and is committed to excellence in the training and education of students as the new workforce of the emerging bio-based society.

Please find attached my CV.

Thank you for your consideration.

Sincerely,

Lew Christopher

Lew P. Christopher, Ph.D., P.E.
Director, Biorefining Research Institute (BRI)
Senior Ontario Research Chair
Lakehead University
1294 Balmoral St., Suite 3001C
Thunder Bay P7B 5Z5

Email: lew.christopher@lakeheadu.ca
Phone: 807-343-8844
Fax: 807-343-8240

Curriculum Vitae

Lew P. Christopher

Director, Biorefining Research Institute (BRI)
Senior Ontario Research Chair
Lakehead University
1294 Balmoral St., Suite 3001C
Thunder Bay P7B 5Z5
Phone: 807-343-8844
Fax: 807-343-8240
Email: lew.christopher@lakeheadu.ca

Education

Higher Institute for Chemical Engineering	Chemical Engineering	M.S.
Academy of Sciences, Microbiology Institute	Biotechnol./Biochem. Eng.	Ph.D.
University of the Orange Free State	Bioprocessing	Post-doc

Appointments

2014-Present Director, Biorefining Research Institute (BRI) & Senior Ontario Research Chair in Biorefining Research, Lakehead University, Thunder Bay, ON, Canada

Duties: Provide leadership to a multi-disciplinary team consisting of faculty, researchers and students from several departments at Lakehead University: Biology, Chemistry, Chemical Engineering, Environmental Engineering, Natural Resources Management and Northern Ontario School of Medicine; direct research and development at BRI to achieve the goal of developing transformative, cost-effective and environmentally-sound technologies and products from renewable resources as a substitute for imported oil-based fuels and petrochemicals; work toward the mission to serve the forest products sector, other fibre-processing industries and regional communities in Northern Ontario, and contribute to the socio-economic prosperity of the region; operate BRI with the vision of creating a world-class Centre of Excellence that is among the national and international leaders in biomass research; foster internal and external collaboration towards Biorefining and bioprocess technologies; provide a nurturing environment to support development of junior faculty, graduate and undergraduate students; conduct workshops in bioprocesses that encourage and promote Biorefining research; obtain funding for projects that advance the aims of BRI; support the translation of basic research into tangible outcomes; provide extension services to the public and industry in the form of consultations, process and product development for the Integrated Forest Biorefineries.

2012-2014 Director, Center for Bioprocessing Research & Development (CBRD); Associate Professor (tenure-track), Department of Civil & Environmental Engineering (CEE); South Dakota School of Mines & Technology, Rapid City, SD, USA

Duties: Provide leadership to a multi-disciplinary team of 130 researchers from 15 departments at 2 universities in SD; establish, upgrade & expand a nationally recognized research program on bioprocessing of lignocellulosic biomass to bioenergy and bioproducts; continuously strive to increase federal and non-state external funding by continuously readjusting funding priorities and reassessing Center's SWOT to maximize success rate of grant writing and applications; develop a strategic plan to address critical aspects of the CBRD long-term sustainability; grow /recruit /retain expertise for enhanced competitiveness and sustainable growth of CBRD; improve and upgrade infrastructure including equipment and facilities on a continuous basis; establish and equip a new CBRD laboratory on SDSM&T campus; prepare budgets & control expenses; prepare & present bi-annual reports; establish external advisory board (EAB) comprising representatives from industry, federal labs, government and non-profit organizations; hold annual EAB meetings

to provide progress report and obtain feedback and direction on future R&D; train new workforce for the transition to bio-based economy in SD and beyond; maximize potential of internal CBRD collaborations & build strategic partnerships locally and externally; encourage and promote formation of spin-off companies to transition technology development to commercialization; interact with SD government, federal labs, industry and media; promote CBRD activities across the state, nation-wide and internationally; promote & assist R&D and commercialization of biofuels and bioproducts industry in SD; participate in CEE activities; teach existing and/or develop new CEE courses as per department needs; advise/co-advise/recruit graduate students; mentor research scientists.

2010-2012 Director, CBRD; Associate Professor (tenure-track), Department of Chemical & Biological Engineering, South Dakota School of Mines & Technology, Rapid City, SD, USA

2008-2010 Director & Professor (non-tenure), CBRD, South Dakota School of Mines and Technology, Rapid City, SD, USA

2004-2007 Professor & Head of Sappi Biotechnology Laboratory, Department of Chemical Engineering, University of Pretoria; Senior Research Scientist, Sappi Management Services Pty. Ltd., Pretoria, South Africa

Duties: Supervise and direct research of a diverse research team of 10-15 consisting of graduate students and industrial scientists with multi-disciplinary and multi-racial background; establish, equip and manage two research laboratories – one in academic, and another – in industrial settings; prepare project proposals and manage existing research grants and budgets of several millions; prepare monthly, quarterly and annual progress reports to industry and funding agencies; hold regular quarterly and annual meetings with industry; carry out techno-economic evaluations of newly developed technologies; conduct pilot-plant and large-scale trials to verify new in-house technologies; disseminate results at international meetings and in peer-reviewed journals; establish, maintain and expand internal and external collaborations, both nationally and internationally; teach class and lab courses in biotechnology and biochemical engineering of relevance to research projects and grants.

1996-2004 Research Officer, Sappi Management Services Pty. Ltd., South Africa

1999-2004 Professor & Head of Sappi Biotechnology Laboratory, Department of Microbial, Biochemical & Food Microbiology, University of the Free State, South Africa

1996-1999 Lecturer, Department of Microbial, Biochemical & Food Biotechnology, University of the Free State, South Africa

1995-1996 Senior Researcher, Department of Microbial, Biochemical & Food Biotechnology, University of the Free State, South Africa

1992-1994 Post-doctoral Researcher, Department of Microbial, Biochemical & Food Biotechnology, University of the Free State, South Africa

Professional Activities

- Member of the Natural Resources Member of the Organizing Committee of the Canada (NRCan) Expert Panel on Investments in Forest Industry Transformation (IFIT), Ottawa, Canada, 12/2014
- Member-at-Large on Doctoral Advisory Committee, University of North Dakota, 2014-
- External Examiner for M.S. Thesis, Durban University of Technology, Durban, South Africa, 2014-
- Panellist Reviewer: NSF Engineering Research Centers (ERC) Proposal Panel, 10/2013
- Panellist Reviewer for U.S. Department of Energy (DOE): Great Lakes Bioenergy Research Center (GLBRC), 11/2013
- Who'sWho in America 2014, Marquis Who'sWho Publications, 68th Ed., 09/2013
- Ad-hoc Reviewer for U.S. Department of Agriculture - National Institute of Food and Agriculture (USDA NIFA), 07/2013
- Member of Biomedical Engineering Master's and Doctoral Program Advisory Council, South Dakota School of Mines & Technology, 2013-2014
- External Examiner, University of Manitoba, Canada, 04/2013

- Panellist Reviewer for U.S. Environmental Protection Agency - Small Business Innovation Research (EPA SBIR), 08/2012, 11/2013
- International Collaborator on Genome Canada Project "Microbial Genomics for Biofuels and Coproducts from Biorefining Processes" (MGCB2), 2012-
- Member of the International Scientific Advisory Committee of the Energy & Materials Research Conference (EMR), 6/2012, 2/2015
- Who's Who in Engineering Higher Education (WWEHE), 2012
- Member of the Science Advisory Board of the World Congress on Bioenergy (WCBE), 2011-2012
- Member of the Program Committee of Symposium on Enzymes & Biocatalysis (SEB), 2011-2012
- Ad-hoc Reviewer for U.S. Department of Agriculture - Small Business Innovation Research (USDA SBIR), 01/2011, 01/2012, 01/2013, 05/2013, 02/2014
- Member of the Biorefinery Committee of the Technical Association of the Pulp and Paper Industry (Tappi), 2010-
- Professional Engineer, Engineering Council of South Africa (ECSA), South Africa, 2008-
- Managing Director, Biorefinery World, LLC, 2012-
- Member of the Science Advisory Board of Myriant Corporation, Woburn, MA, 2010-2011
- Member of the International Scientific Advisory Committee on Renewable Resources and Biorefineries (RRB), 2009-2010
- Member of the Task Force for Development of Strategic Research Plan for the South Dakota School of Mines & Technology in the Focus Areas of *Energy & Environment, Materials & Manufacturing,* and *Biomedical Engineering*, 2009-2010
- Managing Director, Biorefinery International, LLC, 2008-2011
- Panel Expert on Bioprocessing Technologies for the National Research Foundation (NRF), South Africa, 2006-2008

Research Interests

- *Energy and Environmental Sustainability*: Integrated forest biorefineries, bioprocessing of renewable resources for sustainable production of biofuels and value-added biochemicals and biomaterials; environmentally sustainable solutions for municipal solid waste, industrial and waste water treatment plants
- *Biomedical Engineering*: Development of plant based natural compounds with important biomedical properties including anti-oxidant, anti-microbial, anti-tumor and other biological activities for use in a variety of pharmacological products

Research Output

• Books	4
• Book chapters	12
• Peer-reviewed articles	70
• Patents	8
• Provisional patents	1
• Invention disclosures	3
• Media coverage	19
• Invited presentations	37
• Presentations	257

Research Grants - South Africa (1997-2007): over R11.4 million (Government, Industry)

Research Grants - USA (2008-2014): $7.5 million (NSF, DOE, USDA, DOD, SD GOED, Industry)

Learning Facilitation

- Trained and supervised over 45 graduate and undergraduate students, post-docs, research scientists, and research assistants in Chemical and Biochemical Engineering, Biotechnology, Biochemistry, and Microbiology:
  - Students: Ph.D. (11); M.S. (15); B.S. Hons. (5); UG Students (5)
  - Post-docs/Research Scientists: 5
  - Research Assistants: 6
- Courses taught: Biochemical Engineering (lecture and lab); Chemical Engineering Fluids (lab); Microbial and Enzymatic Processing (lecture); Environmental Engineering Unit Operations – Biological Treatment of Wastewater (lecture and lab)
- Served as External Examiner to graduate students in Chemical and Biochemical Engineering, Biosystems Engineering, Biotechnology, Biochemistry, and Microbiology

Research Mission

To add value to the national and global bio-economy by applying an integrated biorefinery approach in the research and development of cost effective and environmentally sound technologies for sustainable production of renewable biomass-derived energy and high value bioproducts

Rating (National Research Foundation, South Africa): *Internationally Recognized Established Researcher*

Honors: The 1996 Japan Society for the Promotion of Science (JSPS) Research Award

PhD Thesis: "Utilization of xylan and xylose containing sources of plant origin"

Summary: The purpose of the investigation was to evaluate the opportunities for utilization of xylan-rich agricultural residues (corn cobs, wheat bran, oat hulls, rye straw, etc) and industrial waste prehydrolyzate from the dissolving pulp viscose rayon industry for the simultaneous production of xylose and the enzyme glucose isomerase. The latter together with α-amylase and glucoamylase is used in the production of high-fructose syrups from corn starch. It was demonstrated that xylose could be obtained from the xylose-enriched hydrolyzates following several pretreatment, detoxification and purification steps. These hydrolyzates were shown to serve as a cost-effective substitute for xylitol which is traditionally used as carbon feedstock and inducer during glucose isomerase production. The research findings of this investigation were protected with three patent applications. In order to maximize the added value derived from plant biomass in a hypothetical biorefinery, a technological scheme for the complex utilization of these lignocellulosic materials was proposed.

Editorial Services

- *BioEnergy Research* (Associate Editor & Guest Editor)
- *British Journal of Applied Science and Technology* (Chief Editor - Chemical & Biological Engineering)
- *Frontiers in Bioengineering and Biotechnology* (Associate Editor – *Bioenergy and Biofuels*)
- *Frontiers in Microbiology* (Associate Editor - *Systems Microbiology* & Topic Editor – Production and Application of Microbial Lipids)
- *Institute of Integrated Omics and Applied Biotechnology IIOAB Journal* (Section Editor, Chemical Engineering & Bioprocessing)

Peer Reviewing (selected)

- *American Chemical Society*
- *Applied Biochemistry and Biotechnology*
- *Applied and Environmental Microbiology*
- *Applied Microbiology and Biotechnology*
- *BioEnergy Research*

- *Bioresource Technology*
- *Biotechnology Letters*
- *Current Microbiology*
- *Enzyme and Microbial Technology*
- *Extremophiles*
- *Journal of Biotechnology*
- *Journal of Chemical Technology and Biotechnology*
- *Journal of Industrial Microbiology and Biotechnology*
- *Journal of Renewable & Sustainable Energy*
- *Process Biochemistry*

Organizing Committees

- Member of the Organizing Committee of the 2015 Industrial Biotechnology Congress, Birmingham, UK, 8/2015
- Member of the Organizing Committee of the International Congress and Expo on Biofuels & Bioenergy, Valencia, Spain, 8/2015
- Member of the Organizing Committee of the International Forest Biorefinery Summit, Paper Week Canada, Montreal, Canada, 2/2015
- Member of the Organizing Committee of the International Energy Agency (IEA) Workshop "*Biotechnology for the Conversion of Lignocellulose*", August 22-26, 1999, Itala Game Reserve, KwaZulu-Natal, South Africa
- Chairman of the Organizing Committee of the *9th International Conference on Biotechnology in the Pulp and Paper Industry*, October 10-14, 2004, Durban, South Africa

Session Chair/Panel Moderator

- Paper Week Canada 2015, International Forest Biorefinery Summit (IFBS), Montreal, Feb 2-3, 2015 (Session IV: *Integrated Biorefineries*)
- 36th International Symposium on Biotechnology for Fuels and Chemicals (SBFC), Clearwater Beach, April 28-May 1, 2014 (*Bioprocessing, Reaction Design, and Separations Technology*)
- The 5th International Conference on Applied Energy, Pretoria, South Africa, July 1-4, 2013 (*Biodiesel*)
- 2012 AIChE National Meeting, Pittsburgh, PA, October 28 - November 2, 2012 (Process Development Division: *Bioprocessing of Lignocellulosic Biomass to Biofuels and Value-Added Bioproducts*)
- International Bioenergy & Bioproducts Conference (IBBC 2012), Savannah, GA, October 17-19, 2012 (Session 7: *Recent Advances in Enzymatic Saccharification*)
- International Symposium on Catalysis for Clean Energy and Sustainable Chemistry (CCES2012), Madrid, Spain, June 27-29, 2012 (*Plenary Lecture – Chemical Conversion of Biomass onto New Generations of Renewable Fuels, Polymers, and Value-Added Products*)
- The 2012 Energy & Materials Research Conference (EMR2012), Torremolinos, Spain, June 20-22, 2012 (*Energy Production from Biomass and Biofuels* - part 2)
- The 3rd Symposium on Enzymes & Biocatalysis, Xian, China, April 25-28, 2012 (Track 500: *Cellulosomes, Cellulases & Other Carbohydrate Modifying Enzymes*)
- The 2nd Annual World Congress of Bioenergy, Xian, China, April 25-28, 2012 (Track 1400: *Biorefinery/Bioprocess Tech*)
- 2012 International Biomass Conference & Expo, Denver, CO, April 16-19, 2012 (Track 5: *Advanced Biofuels & Biobased Chemicals*)
- The 2011 Annual AIChE Meeting, Minneapolis, MN, October 16-21, 2011 (Process Development Division: *Alternative Feedstocks for Energy and Chemicals*)

- The 2nd Symposium on Enzymes & Biocatalysis, Dalian, China, April 25-29, 2011 (Track 4-7: *Enzymes for Paper*)
- The 1st Annual World Congress of Bioenergy, Dalian, China, April 25-29, 2011 (Track 3-4: *Bioenergy from Wood and Forestry Technologies*)
- 2010 International Fuel Ethanol Workshop & Expo, St Louis, MO, June 14-17, 2010 (Track 3: *Cellulosic Ethanol: New Developments: Enzymes for Cellulosic Ethanol Production)*
- 2010 AIChE National Meeting, Salt Lake City, UT, November 7-12, 2010 (Forest Bioproducts Division 17 - Session: *Biorefinery-Improved Utilization of Co-Products from Biorefinery*)
- 6th Annual BIO World Congress on Industrial Biotechnology & Bioprocessing, Montreal, Canada, July 19-22, 2009 (Track 2 –Feedstocks and Sustainability: *Increasing the Value of Wood Based Lignocellulosic Fiber*)
- 31st Symposium on Biotechnology for Fuels and Chemicals, San Francisco, CA, May 3-6, 2009 (Session V: *Enzyme Science and Technology I*)
- 2002 Tappsa Pulp and Paper Week "Adding Value in a Global Industry", Durban, South Africa, 2002
- 2000 Tappsa Pulp and Paper Week "2000 and beyond", Durban, South Africa, 2000
- BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry", Grahamstown, South Africa, 2000
- IAE Workshop "Biotechnology for the Conversion of Lignocellulose", Itala Game Reserve, South Africa, 1999
- Biotech SA '97, Grahamstown, South Africa, 1997

Collaborations (selected)

- University of Manitoba, Canada. Project: Genomics and proteomics of hydrogen-producing mesophiles and thermophiles (2011-2014)
- South Dakota State University, Brookings, SD, USA. Project: Development of biofuels and bioprocessing technologies in South Dakota (2008-2014)
- Technical University of Budapest, Budapest, Hungary. Project: Solid state fermentation of enzymes (1995-2007)
- Technical University of Vienna, Vienna, Austria. Project: Oxidative lignin-degrading enzymes (1999-2004)
- Slovak Academy of Sciences, Bratislava, Slovakia. Project: Mode of action of xylan-degrading enzymes (1998-2000)
- National Chemical Laboratory, Pune, India. Project: Screening and production of thermo-tolerant xylanolytic enzymes (1998-1999)
- University of Wisconsin Biotechnology Center and Institute for Microbial and Biochemical Technology, Madison, WI, USA. Project: Biopulping and biobleaching (1994-1999)

Professional Societies

- American Chemical Society (ACS), Division of Cellulose and Renewable Materials; Division of Biochemical Technology
- American Institute of Chemical Engineers (AIChE), Forest Bioproducts Division; Process Development Division
- American Society for Microbiology (ASM)
- Engineering Council of South Africa (ECSA)
- Pulp and Paper Association of Canada (PAPTAC)
- Society for Applied Microbiology (SfAM)
- Society for Biological Engineering (SBE)
- Society for Industrial Microbiology and Biotechnology (SIMB)

- Technical Association of the Pulp and Paper Industry (TAPPI)

Research Output

Books

1. Christopher, L.P., Ed. (2013) *Integrated Forest Biorefineries: Challenges and Opportunitie*s. Royal Society of Chemistry, Cambridge, UK (ISBN 978-184973-321-2).
2. Christopher, L.P. (2007) *Development of a Biotechnological Approach to the Management of Waste Waters from the Pulp and Paper Industry*, WRC No 763/1/07, Pretoria, South Africa, (ISBN No 978-1-77005-564-3).
3. Christopher, L.P. (2005) *Bio-remediation and Bio-utilization of Pulping and Bleaching Waste Waters*, WRC No 1367/1/05, Pretoria, South Africa (ISBN No 1-77005-291-7).
4. Christov, L.P. (2003) *Further Development of a Biotechnological Approach to the Management of Waste Waters from the Pulp and Paper Industry*, WRC No 1082/1/03, Pretoria, South Africa (ISBN No 1-86845-959-4).

Book chapters

1. Christopher, L.P. and Hemanathan, K. (2015) Clean and sustainable biodiesel production. In: (J. Yan, Ed.) *Handbook of Clean Energy Systems* (in press).
2. Christopher, L.P. (2013) Integrated forest biorefineries: Current state and development potential. In: *Integrated Forest Biorefineries: Challenges and Opportunitie*s (Christopher, L.P., Ed.), Royal Society of Chemistry, Cambridge, U.K., 2013, Chapter 1, pp. 1-66.
3. Christopher, L.P. (2012) Adding value prior to pulping: Bioproducts from hemicellulose. In: *Global Perspectives on Sustainable Forest Management* (Okia, C.A., Ed.), InTech, Rijeka, Croatia, 2012, Chapter 14, pp. 225-246.
4. Zambare, V.P., Zambare, A. and Christopher, L.P. (2011) Enzymatic hydrolysis of hemicellulose from corn stover and prairie cord grass. In: *Advances in Biotech Research* (Deshmukh, A.M., Jawalikar, J.D. and Waghmare, S.S., Eds.), Editors and Microbiologist Society, Osmanabad, India, 2011, pp. 300-313.
5. Christopher, L. Xylanases: Properties and applications (2004) In: *Concise Encyclopedia of Bioresource Technology* (Pandey, A., Ed.), The Haworth Press, Inc., Binghamton, NY, 2004, pp. 601-609.
6. Szendefy, J., Szakács, G. and Christopher, L. (2004) Biobleaching efficiency of *Aspergillus oryzae* xylanases produced by solid substrate fermentation. In: *Lignocellulose Biodegradation* (Saha, B. and Hayashi, K., Eds.), American Chemical Society, Washington, DC, 2004, pp. 316-338.
7. Szendefy, J., Szakács, G. and Christopher, L. (2003) *In situ* solid-state fermentation and utilization of xylanase in pulp bleaching. In: *Application of Enzymes to Lignocellulosics* (Mansfield, S. and Saddler, J.N., Eds.), American Chemical Society, Washington, DC, 2003, pp. 255-284.
8. Bissoon, S., Singh, S. and Christov, L. (2002) Evaluation of the bleach-enhancing effect of xylanases on bagasse pulp. In: *Biotechnology in the Pulp and Paper Industry* (Viikari, L. and Lantto, R., Eds.), Progress in Biotechnology, Elsevier, Amsterdam, pp 247-254. ISBN 0-444-51078-8
9. Kandioller, G. and Christov, L. (2001) Evaluation of the delignification and bleaching abilities of selected laccases with HBT on different pulps. In: *Oxidative Delignification Chemistry: Fundamentals and Catalysis* (Argyropoulos, D.S., Ed.), chap. 27, ACS Symp. Ser. 785, American Chemical Society, Washington, D.C., pp. 427-443.
10. Ferraz, A., Christov, L.P. and Akhtar, M. (1998) Fungal pretreatment for organosolv pulping and dissolving pulp production. In: *Environmentally Friendly Pulping and Bleaching Methods* (Young, R.A. and Akhtar, M., Eds.), chap. 13, John Wiley & Sons, Inc., New York, pp. 421-447.
11. Christov, L.P. & B.A. Prior (1996) Reduction of active chlorine charges in bleaching of xylanase-pretreated sulfite pulp. In: *Enzymes for Pulp and Paper Processing* (Jeffries, T.W., and Viikari, L.,

eds.), chap. 16, ACS Symp. Ser. 655, American Chemical Society, Washington, D.C., pp. 208-227.

12. Christov, L.P., Akhtar, M. and Prior, B.A. (1996) Biobleaching in dissolving pulp production. In: *Biotechnology in the Pulp and Paper Industry*: *Recent Advances in Applied and Fundamental Research* (Messner, K. and Srebotnik, E., Eds.), Facultas Universitätsverlag, Vienna, pp. 625-628.

Peer-reviewed articles

1. Christopher, L.P., Zambare V.P., Zambare, A., Hemanathan, K. and Malek, L. (2015) A thermo-alkaline lipase from a new extremophile *Geobacillus thermodenitrificans* AV-5 with potential application in biodiesel production. *J. Chem. Technol. Biotechnol.* (in press).
2. Upadhyaya, B., DeVeaux, L.C. and Christopher, L.P. (2014) Metabolic engineering as a tool for enhanced lactic acid production. *Trends Biotechnol.* 32: 637–644.
3. Brzonova, I., Kozliak, E., Kubátová, A., Chebeir, M., Qin, W., Christopher, L. and Yun, J. (2014) Kenaf biomass biodecomposition by Basidiomycetes and Actinobacteria in submerged fermentation for production of carbohydrates and phenolic compounds. *Bioresour. Technol.* 173: 352-360.
4. Christopher, L.P., Kapatral, V., Vaisvil, B., Emel, G. and DeVeaux, L.C. (2014) Draft genome sequence of a new homofermentative lactic acid-producing *Enterococcus faecalis* isolate CBRD01. *Genome Announc.* 2(2):e00147-14. DOI:10.1128/genomeA.00147-14. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3968327/pdf/e00147-14.pdf
5. Raj, S.M., Talluri, S. and Christopher, L.P. (2014) Enhanced lactic acid production by a novel homofermentative *Enterococcus faecalis* isolate. *Microb. Biotechnol.* DOI: 10.1111/1751-7915.12133 http://onlinelibrary.wiley.com/doi/10.1111/1751-7915.12133/pdf.
6. Christopher, L.P., Yao, B. and Ji, Y. (2014) Lignin biodegradation with laccase-mediator systems. *Front. Energy Res.* 2: 1-13. http://journal.frontiersin.org/Journal/10.3389/fenrg.2014.00012/full
7. Christopher, L.P., Hemanathan, K. and Zambare, V.P. (2014) Enzymatic biodiesel: Opportunities and challenges. *Appl. Energy* 119: 497-520.
8. Talluri, S., Raj, S.M. and Christopher, L.P. (2013) Consolidated bioprocessing of untreated switchgrass to hydrogen by the extreme thermophile *Caldicellulosiruptor saccharolyticus* DSM 8903. *Bioresour. Technol*. 139: 272-279. http://dx.doi.org/10.1016/j.biortech.2013.04.005.
9. Zambare, V., Barh, D. and Christopher, L.P. (2012) Optimization of enzymatic hydrolysis of prairie cordgrass for improved ethanol production. *J. Renew. Sustain. Energ.* 4, 033118; DOI: 10.1063/1.4729587.
10. Zambare, V. and Christopher, L.P. (2012) Biopharmaceutical potential of lichens. *Pharma. Biol.* 50:778-798. DOI: 10.3109/13880209.2011.633089.
11. Hollmann, A., Saviello, M., Delfederico, L., Saraiva, T.D.L., Barh, D., Jain, N., Tiwari, S., Chandra, S., Gupta, K., Zambare, V., Kumar, A., Christopher, L., Misra, A.N., Kumavath, R.N**.,** Azevedo, V., Semorile, L. and Miyoshi, A. (2012) Tight controlled expression and secretion of *Lactobacillus brevis* SlpA in *Lactococcus lactis. Biotechnol. Lett*. 34: 1275-1281. DOI: 10.1007/s10529-012-0887-6.
12. Subramanian, M.R., Talluri, S. and Christopher, L.P. (2012) Thermophilic hydrogen production from renewable resources: Current status and future perspectives. *Bioenerg. Res.* 5: 515-531. DOI 10.1007/s12155-012-9184-4.
13. Zambare, V. and Christopher, L.P. (2012) Optimization of enzymatic hydrolysis of corn stover for improved ethanol production. *Energy Explor. Exploit.* 30: 193-206.
14. Christopher, L.P. (2011) Biomass bioprocessing. *Bioenerg. Res.* 4: 223-224.
15. Zambare, V. and Christopher, L.P. (2011) Response surface analysis of cellulase production in Bacillus sp. SB-18. *Int. J. Food Ferment. Technol.* 1: 63-68.
16. Zambare, V., Bhalla, A., Muthukumarappan, K, Sani, R. and Christopher, L.P. (2011) Bioprocessing of agricultural waste to ethanol utilizing a cellulolytic extremophile. *Extremophiles* 15: 611-618.

17. Zambare, V. and Christopher, L. (2011) Optimization of culture conditions for production of cellulase by a thermophilic *Bacillus* strain. *J. Chem. Chem. Eng.* 5: 521-527.
18. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) Biochemical characterization of thermophilic lignocellulose-degrading enzymes and their potential for biomass bioprocessing. *Int. J. Energ. Environ.* 2: 99-112.
19. Zambare, V. and Christopher, L.P. (2011) Statistical analysis of cellulase production in *Bacillus amyloliquefaciens* UNPDV-22. *Extreme Life, Biospeology & Astrobiology Int. J. Bioflux Soc.* 3: 38-45.
20. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) Potential of thermostable cellulases in bioprocessing of switchgrass to ethanol. *BioResources* 6: 2004-2020.
21. Tungal, R., Shende, R.V. and Christopher, L.P. (2011) Nickel catalyzed high pressure hydrothermal processing of biomass for H_2 production. *J. Energy Power Eng.* 5: 504-514.
22. Zambare, V. and Christopher, L.P. (2010) Solid state fermentation and characterization of a cellulase enzyme system from *Aspergillus niger* SB-2. *Int. J. Biol. Sci. Technol*. 2: 22-29.
23. Rastogi, G., Bhalla, A., Adhikari, A., Bischoff, K.M., Hughes, S.R, Christopher, L.P. and Sani, R. (2010) Characterization of thermostable cellulases produced by *Bacillus* and *Geobacillus* strains. *Bioresour. Technol.* 101: 8798-8806.
24. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2010) Antioxidant and antibacterial activity of extracts from lichen *Xanthoparmelia somloensis*, native to the Black Hills, South Dakota, USA. *Int. J. Med. Sci. Technol.* 3: 46-51.
25. Chipeta, Z.A., du Preez, J.C. and Christopher, L. (2008) Effect of cultivation pH and agitation rate on growth and xylanase production by *Aspergillus oryzae* in spent sulphite liquor. *J. Ind. Microbiol. Biotechnol.* 35: 587-594.
26. Szendefy, J., Szakacs, G. and Christopher, L. (2006) Potential of solid-state fermentation enzymes of *Aspergillus oryzae* in biobleaching of paper pulp. *Enzyme Microb. Technol.* 24: 1149-1156.
27. Chipeta, Z.A., du Preez, J.C., Szakacs, G. and Christopher, L. (2005) Xylanase production by fungal strains on spent sulphite liquor. *Appl. Microbiol. Biotechnol*. 69: 71-78.
28. Christopher, L., Bissoon, S., Singh, S., Szendefy, J. and Szakacs, G. (2005) Bleach-enhancing abilities of *Thermomyces lanuginosus* xylanases produced by solid-state fermentation. *Process Biochem.* 40: 3230-3235.
29. Van Driessel, B. and Christopher, L. (2004) Mechanisms prevalent during bioremediation of wastewaters from the pulp and paper industry. *Crit. Rev. Biotechnol.* 24: 85-95.
30. Bissoon, S., Singh, S. and Christov, L. (2003) Synergistic interactions of purified xylanases on bagasse pulp hemicellulose. *Tappsa J.* 2: 28-30.
31. Christov, L. and Van Driessel, B. (2003) Waste water bioremediation in the pulp and paper industry. *Ind. J. Biotechnol.* 2: 444-450.
32. Bissoon, S., Christov, L. and Singh, S. (2002) Bleach boosting effects of purified xylanase from *Thermomyces lanuginosus* SSBP on bagasse pulp. *Process Biochem.* 36 (7): 567-672.
33. Van Driessel, B. and Christov, L. (2002) Adsorption of colour from a bleach plant effluent using biomass and cell wall fractions from *Rhizomucor pusillus*. *J. Chem. Technol. Biotechnol.* 77: 155-158.
34. Madlala, A.M., Bissoon, S., Singh, S. and Christov, L. (2001) Xylanase-induced reduction of chlorine dioxide consumption during elemental chlorine-free bleaching of different pulp types. *Biotechnol. Lett.* 23: 345-351.
35. Bissoon, S., Bandu, V., Christov, L. and Singh, S. (2001) Immunolocalisation of a purifed *Thermomyces lanuginosus* xylanase during hydrolysis of bagasse pulp. *Proc. Microsc. Soc. South. Afr.*, pp 14-19, ISBN 0-620-28339-4.
36. Van Driessel, B. and Christov, L. (2001) Decolorization of bleach plant effluent by mucoralean and white-rot fungi in a rotating biological contactor reactor. *J. Biosc. Bioeng.* 92 (3): 271-276.
37. Szendefy, J., Szakacs, G. and Christov, L. (2001) Production of xylanase with thermophilic fungi by solid substrate fermentation. *Acta Microbiol. Immunol. Hung.* 33-37.

38. Christov, L., Biely, P., Kalogeris, E., Christakopoulos, P., Prior, B.A. and Bhat, M.K. (2000) Effects of purified endo-ß-1,4-xylanases of family 10 and 11 and acetyl xylan esterases on eucalypt sulfite dissolving pulp. *J. Biotechnol.* 83: 231-244.
39. Mosai, S., Wolfaardt, J.F., Prior, B.A. and Christov, L.P. (1999) Evaluation of selected lignin-degrading fungi for biosulphite pulping. *Biores. Technol.* 68: 89-93.
40. Christov, L.P., Szakacs, G. and Balakrishnan, H. (1999) Production, partial characterisation and use of fungal cellulase-free xylanases in pulp bleaching. *Process Biochem.* 34: 511-517.
41. Rahouti, M., Seigle-Murandi, F., Steiman, R. and Christov, L.P. (1999) Growth of 1044 strains and species of fungi on 7 phenolic lignin model compounds. *Chemosphere* 38: 2549-2559.
42. Christov, L.P., Myburgh, J., O'Neill, F.H., Van Tonder, A. and Prior, B.A. (1999) Modification of the carbohydrate composition of sulfite pulp by purified and charaterized ß-xylanase and ß-xylosidase of *Aureobasidium pullulans*. *Biotechnol. Progr.* 15: 196-200.
43. Christov, L.P., van Driessel, B. and du Plessis, C.A. (1999) Fungal biomass from *Rhizomucor pusillus* as adsorbent of chromophores from a bleach plant effluent. *Process Biochem.* 35: 91-95.
44. Christov, L.P. and Steyn, M.G. (1999) The use of the white-rot fungus *Trametes nivosa* in bioremediation of pulp effluents. *Proc. Afr. Intern. Environ. Protec. Symp.*, 2-8 July 1999, Pietermaritzburg, South Africa. ISBN 0-620-239-45-X.
45. Van Driessel, B., du Plessis, C.A. and Christov, L.P. (1999) Adsorption of colour from a bleachery effluent using a mucoralean fungus. *Proc. Afr. Intern. Environ. Protec. Symp.*, 2-8 July 1999, Pietermaritzburg, South Africa. ISBN 0-620-239-45-X.
46. Christov, L.P., Szakacs, G., Rele, M.V. and Balakrishnan, H. (1999) Screening of cellulase-free fungal xylanases and evaluation of their performance on sulfite dissolving pulp. *Biotechnol. Techn.* 13: 313-316.
47. Christov, L.P. and Prior, B.A. (1998) Research in biotechnology for the pulp and paper industry in South Africa. *S. Afr. J. Sci.* 94: 695-698.
48. Christov, L.P., Akhtar, M. and Prior, B.A. (1998) The potential of biosulfite pulping in dissolving pulp production. *Enzyme Microb. Technol*. 23: 70-74.
49. Christov, L.P. and Prior, B.A. (1997) Bleaching response of sulfite pulps to pretreatment with xylanases. *Biotechnol. Progr*. 13: 695-698.
50. Christov, L.P., Myburgh, J., Van Tonder, A. and Prior, B.A. (1997) Hydrolysis of extracted and fibre-bound xylan with *Aureobasidium pullulans* enzymes. *J. Biotechnol.* 55: 21-29.
51. Christov, L.P., and Prior, B.A. (1996) Repeated treatments with *Aureobasidium pullulans* hemicellulases and alkali enhance biobleaching of sulphite pulps. *Enzyme Microb. Technol.* 18: 244-250.
52. O'Neill, F.H., Christov, L.P., Botes, P.J. and Prior, B.A. (1996) Rapid and simple assay for feruloyl and *p*-coumaroyl esterases. *World J. Microbiol. Biotechnol.* 12: 239-242.
53. Christov, L.P., Akhtar, M. and Prior, B.A. (1996) Impact of xylanase and fungal pretreatment on alkali solubility and brightness of dissolving pulp. *Holzforschung* 50: 579-582.
54. Christov, L.P., and Prior, B.A. (1996) Repeated treatments with *Aureobasidium pullulans* hemicellulases and alkali enhance biobleaching of sulphite pulps. *Enzyme Microb. Technol.* 18: 244-250.
55. O'Neill, F.H., Christov, L.P., Botes, P.J. and Prior, B.A. (1996) Rapid and simple assay for feruloyl and *p*-coumaroyl esterases. *World J. Microbiol. Biotechnol.* 12: 239-242.
56. Christov, L.P., Akhtar, M. and Prior, B.A. (1996) Impact of xylanase and fungal pretreatment on alkali solubility and brightness of dissolving pulp. *Holzforschung* 50: 579-582.
57. Christov, L.P., and Prior, B.A. (1995) Role of hydrolysis conditions in the enzyme-mediated release of reducing sugars from sulphite pulp. *Biotechnol. Lett.* 17: 821-826.
58. Christov, L.P., and Prior, B.A. (1994) Enzymatic prebleaching of sulphite pulps. *Appl. Microbiol. Biotechnol*. 42: 492-498.
59. Christov, L.P., and Prior, B.A. (1993) Esterases of xylan-degrading microorganisms: production, properties, and significance. *Enzyme Microb. Technol.* 15: 460-475.

60. Christov, L.P., and Prior, B.A. (1993) Xylan removal from dissolving pulp using enzymes of *Aureobasidium pullulans*. *Biotechnol. Lett*. 15: 1269-1274.
61. Christov, L.P, Stoychev, M., Grigorova, Y. and Gjejeva, G. (1990) Experiments for production of glucose isomerase using pretreated hydrolysates from xylan containing plant materials. *Rep. Bulg. Acad. Sci. (Comptes Rendus de L'Academies des Sciences)* 43: 101-103.
62. Christov, L.P, Stoychev, M, Grigorova, Y., Gjejeva, G., Draganova, R. and Vidimsky, E. (1990) Biosynthesis of glucose isomerase by *Streptomyces thermovulgaris* strain 127 using pretreated prehydrolysate. *Acta Microbiol. Bulg.* 26: 53-59.
63. Christov, L.P., Draganova, R., Vidimsky, E., Stoychev, M., Djejeva, G. and Grigorova, Y. (1989) Chemical pretreatment of water prehydrolysate for production of D-xylose. *News Pulp Paper Ind*. 19: 20-21.
64. Christov, L.P. and Draganova, R. (1989) Production of D-xylose from xylan containing plant materials. *News Pulp Paper Ind.* 19: 22-24.
65. Christov, L.P., Draganova, R., Vidimsky, E., Popov, M., Djejeva, G. and Grigorova, Y. (1989) Several possibilities for effective utilization of prehydrolysates derived from viscose cellulose manufacture. *Hydrolysis Wood Chem. Ind*. 6: 30-31.
66. Christov, L.P., Draganova, R., Vidimsky, E., Stoychev, M., Djejeva, G. and Grigorova, Y. (1989) Production of D-xylose from water prehydrolysates. Part I. *News Pulp Paper Ind*. 19: 14-17.
67. Christov, L.P., Draganova, R., Vidimsky, E., Stoychev, M., Djejeva, G. and Grigorova, Y. (1989) Production of D-xylose from water prehydrolysates. Part II. *News Pulp Paper Ind*. 19: 18-22.
68. Christov, L.P., Stoychev, M. and Draganova, R. (1987) Potential uses of prehydrolysates from the viscose production. *News Pulp Paper Ind.* 17: 25-28.
69. Christov, L.P., Stoychev, M. and Draganova, R. (1987) Chemical composition of prehydrolysates from the viscose production. *News Pulp Paper Ind.* 17: 21-24.
70. Christov, L.P., Stoychev, M. and Draganova, R. (1986) Utilization of prehydrolysates derived from the chemical processing of wood. *News Pulp Paper Ind.* 16: 17-20.

Media coverage

1. Plastic from plants: Mines professor looks to turn agricultural waste into bottles. *Rapid City Journal*, August 19, 2013.
2. Mines professor hopes to turn agricultural waste into biodegradable plastics. *Rapid City Journal* (on-line), August 19, 2013. http://rapidcityjournal.com/news/mines-professor-hopes-to-turn-agricultural-waste-into-biodegradable-plastics/article_45bd2fea-a7a0-5f28-8530-daa92dd6dd33.html.
3. North Dakota, South Dakota universities get bioprocessing grant. *Rapid City Journal*, July 26, 2013. http://rapidcityjournal.com/news/local/north-dakota-south-dakota-universities-get-bioprocessing-grant/article_6e1617e1-5988-5625-9dce-337fbc7589a9.html.
4. $6 million NSF grant enhances research at Mines, *SDSM&T News Release*, July 26, 2013. http://www.sdsmt.edu/News/$6-million-NSF-grant-enhances-research-at-Mines/.
5. Student research could potentially save city more than 151,000, *SDSM&T News Release*, May 24, 2013. http://www.sdsmt.edu/News/Student-research-could-potentially-save-city-more-than-$151,000.
6. Forest biorefineries book, *South Dakota Public Broadcasting*, May 3, 2013. http://listen.sdpb.org/post/forest-biorefineries-book.
7. Mines Professor's new book forecasts the future of fuel, *Kota Territory News*, January 30, 2013. http://mytown.kotatv.com/rapid-city/2013/01/30/mines-professors-new-book-forecasts-the-future-of-fuel/ and http://news.sdsmt.edu/press/221543/.
8. SD Biotech Association features Mines research. *SDSM&T Website*, May 15, 2012. http://news.sdsmt.edu/press/189637; full story – *SD Biotech Association Website*, http://www.sdbio.org/featured_detail.php?iFEAID=18.

9. Mines meeting looks at bioprocessing. *Rapid City Journal*, March 18, 2012. http://rapidcityjournal.com/business/business-briefs-for-march/article_61b606ae-6fa4-11e1-8268-001871e3ce6c.html.
10. Alternate energy center brings industry to rural communities. *Kota Territory News*, March 9, 2012. http://www.kotatv.com/story/17123770/alternate-energy-center-bringing-industry-to-rural-communitie4s.
11. Energy industry leaders focus on bioprocessing research, funding during annual meeting hosted at School of Mines. *SDSM&T Website*, March 8, 2012. http://news.sdsmt.edu/press/180322/.
12. Prairie cordgrass for ethanol production. *AIP Journal of Renewable and Sustainable Energy*. November, 2011. http://jrse.aip.org/1.2659392.
13. South Dakota research centers providing impact. *Prairie Business Magazine,* November 2011, SDPB, 1-2. http://issuu.com/wolffk/docs/pbnov11issuu.
14. The denser the better. *Ethanol Producer Magazine*, July 2011, 37. http://www.ethanolproducer.com/articles/7876/the-denser-the-better.
15. Research critical to well-rounded economy**.** *Prairie Business Magazine,* November 2011, 26-28. http://www.prairiebizmag.com/event/article/id/12198/.
16. Hydrogen has future potential. *Prairie Business Magazine*, April 2011, 32-35. http://issuu.com/wolffk/docs/pbapril2011.
17. S.D. projects get millions of dollars in defense bill. *Rapid City Journal*, December 22, 2009. http://rapidcityjournal.com/news/article_5f074b0a-ef24-11de-8d0c-001cc4c002e0.html
18. Mines lab work seeks answers to biofuels energy questions. *Rapid City Journal*, October 10, 2009. http://rapidcityjournal.com/news/local/top-stories/mines-lab-work-seeks-answers-to-biofuels-energy-questions/article_731ccd37-6db3-5ea2-96d5-72b05b8c328c.html?mode=story.
19. Defense projects with ties to School of Mines, other state schools get nod in Senate committee. *Rapid City Journal*, September 8, 2009. http://rapidcityjournal.com/news/local/defense-projects-with-ties-to-school-of-mines-other-state/article_8caf271c-cc15-5538-8d39-465c092ec169.html

Patents

1. Christopher, L.P., Subramanian, M.R. and Talluri, S. Microorganism and method for lactic acid production. *U.S. Pat. Appl. 14/109,587*, Dec. 17, 2013.
2. Christov, L, du Preez, J.C. and Szakacs, G. (2002) Process for bio-utilization of industrial waste water. *S.A. Pat* 2002/4532.
3. Christov, L, Szakacs, G. and Tengerdy, R. (2002) Biobleaching of ligno-cellulose pulp. *S.A. Pat* 2002/3513.
4. Christov, L.P. and Prior, B.A. (1996) Biopulping and biobleaching of sulphite pulp for producing dissolving pulp. *S.A. Pat* 1996/4590.
5. Christov, L.P. and Prior, B.A. (1996) Biobleaching of sulphite pulp for producing dissolving pulp. *S.A. Pat* 96/4589.
6. Christov, L.P., Stoychev, M., Grigorova, Y., Djejeva, G. and Draganova, R. (1990) Nutritious medium for producing glucose isomerase. *BG Pat* 85,943.
7. Draganova, R., Christov, L.P. and Stoychev, M. (1987) Method for D-xylose production from water prehydrolysate. *BG Pat* 44,279.
8. Stoychev, M., Christov, L.P., Grigorova, Y, Djejeva, G. and Draganova, R. (1990) Nutritious medium for producing glucose isomerase. *BG Pat* 81,785.

Provisional patents

1. Improved pharmacological products containing natural compounds with anti-oxidant, anti-microbial, and anti-tumor activities. *U.S. Pat Appl Docket No.P10873US00*, Oct. 25, 2013.

Invention disclosures

1. Microorganism and method for biohydrogen production via consolidated bioprocessing of lignocellulosic biomass, January 30, 2012, South Dakota School of Mines and Technology.
2. Utilization of freshwater diatom *Didymosphenia geminate*, September 22, 2011. South Dakota School of Mines and Technology.
3. High performance lactic acid producing microorganism and lactic acid production process, September 7, 2011. South Dakota School of Mines and Technology.

Invited presentations

2014 Lignocellulosic Biorefineries: The Way Forward. Technical University of Hamburg, Hamburg, Germany, June 27, 2014.
2014 Forest Products Biorefineries: Factories for Complex Utilization of Biomass. KTH Royal Institute of Technology, Stockholm, Sweden, March 24, 2014.
2014 Biorefining of Lignocellulosic Biomass for Sustainable Production of Biofuels and Value-Added Bioproducts. Lakehead University, Thunder Bay, Canada, February 25, 2014.
2013 Potential for Bioenergy Research and Development in South Dakota. Durban University of Technology, Durban, South Africa, June 27, 2013.
2013 Potential for Bioenergy Research and Development in South Dakota. University of the Free State, Bloemfontein, South Africa, June 14, 2013.
2013 Biofuel and Biochemical Production in an Integrated Forest Biorefinery. University of Manitoba, Winnipeg, Canada, April 9, 2013.
2012 Thermophilic Bioprocessing of Lignocellulosic Biomass to Biofuels. Institute of Catalysis and Petrochemicals, Spanish Council for Scientific Research (CSIC), Madrid, Spain, July 2, 2012.
2012 Discovery and Exploitation of Extremophiles in Bioenergy Production. Institute of Enzyme Engineering, Shannxi Academy of Sciences, Xi'an, China, April 23, 2012. (http://enzyme-tec.xab.cas.cn/xwdt/snxw/201206/t20120618_93578.html)
2012 Advantages of Thermostable Hydrolytic Enzymes in Biomass Conversion Processes. Northwestern Polytechnical University, Xi'an, China, April 24, 2012.
2011 Discovery and Exploitation of Thermophiles for Biofuel Production. University of Manitoba, Winnipeg, Canada, November 18, 2011.
2011 Potential of a Thermophilic Isolate and Its Enzymes in Ethanol Fermentation of Switchgrass. *2011SIM Annual Meeting and Exhibition*, New Orleans, LA, USA, July 28, 2011.
2011 Bioenergy Initiatives at SDSM&T and South Dakota. Beihang University, Beijing, China, April 22, 2011.
2011 Bioprocessing Research and Development in South Dakota. Michigan State University, Lansing, MI, March 17, 2011.
2011 2010 Center for Bioprocessing Research and Development. Black Hills State University, Spearfish, SD, February 18, 2011
2011 2010 Center for Bioprocessing Research and Development, Presentation to the Congressional Government Affairs Team, South Dakota School of Mines and Technology, Rapid City, SD, February 4, 2011.
2010 Center for Bioprocessing Research and Development. South Dakota School of Mines and Technology, Rapid City, SD, March 2, 2010.
2009 Towards Sustainable Bioenergy in South Dakota. University of Hawaii at Manoa, Honolulu, HI, USA, November 12, 2009.
2008 Bioprocessing Research in South Dakota. DOE NREL, Golden, CO, USA, December 11, 2008.
2008 Challenges in Bioprocessing of Lignocellulose to Fuels and Chemicals. *2008 SIM Annual Meeting and Exhibition*, San Diego, CA, August 14, 2008.
2008 The Role of 2010 CBRD in SD Bio-Economy, Presentation to SD Utility Share Holders, Black Hills Business Development Center, SDSM&T, June 26, 2008.

2008 CBRD and the Bioprocessing Research in South Dakota. South Dakota State University, SD, USA, June 12, 2008.
2008 Towards the Development of Integrated Forest Biorefinery. Lakehead University, Thunder Bay, ON, Canada, January 16, 2008.
2007 Bioprocessing of Lignocellulose to Fuels and Chemicals. South Dakota School of Mines and Technology, Rapid City, SD, USA, October 19, 2007.
2007 Hemicellulose Bioprocessing to Evolve Existing Pulp Mills into Forest Biorefineries, University of Maine, Orono, ME, USA, April 5, 2007.
2002 In-situ Solid-state Fermentation and Utilization of Xylanase in Pulp Bleaching. Dept. of Microbiology, University of New Delhi South Campus, New Delhi, India, December 9, 2002.
2002 Use of Industrial Effluents for Enzyme Production. *43rd^{h} Annual Conference of the Association of Microbiologists of India (AMI)*, Hisar, India, December 13, 2002.
2000 Evaluation of the Delignification Abilities of Laccases from Selected White-rot Fungi on Different Pulp Types. The Finnish Pulp and Paper Research Institute (KCL), Espoo, Finland, August 23, 2000.
1999 Production and Application of *Gliocladium viride* Xylanase in Pulp Bleaching. *Sixth International Trichoderma-Gliocladium Workshop*, Espoo, Finland, June 15, 1999.
1999 Biotechnology in dissolving pulp manufacture. *1999Tappi Pulping Conference*, Orlando, Florida, USA, November 2, 1999.
1998 Use of biotechnology to aid manufacture of chemical pulps. *Diamond Jubilee Symposium and 39th Annual Conference of the AMI*, Mangalore, India, December 8, 1998.
1998 Use of Biotechnology to Aid Manufacture of Chemical Pulps, CSIR, Trivandrum, India, December 11, 1998.
1996 Biobleachability of Sulphite Pulps. In: *Cellulases and Their Applications*, Seminar sponsored by PROBRAIN, Ehime University, Ehime, Japan, December 4, 1996.
1996 Pulp and Paper Biotechnology: An Overview. Gifu University, Gifu, Japan, December 2, 1996.
1996 Reduction of Active Chlorine Charges in Bleaching of Xylanase-pretreated Sulfite Pulp. University of Ghent, Ghent, Belgium, April 8, 1996.
1994 Biopulping and Biobleaching in Dissolving Pulp Manufacture, Department of Microbiology and Biochemistry. University of the Orange Free State, Bloemfontein, South Africa, August 15, 1994.
1994 Biotechnology in the Pulp and Paper Industry. S.A. Botany Society, University of the Orange Free State, Bloemfontein, South Africa, April 18, 1994.
1991 Production of Glucose Isomerase by *Streptomyces thermovulgaris*. Bulgarian Academy of Sciences, Sofia, Bulgaria, October 15, 1991.

Presentations

1. Christopher, L.P. (2015) Sustainable production of hydrogen by consolidated bioprocessing of lignocellulosic biomass. *International Forest Biorefining Summit, Paper Week Canada 2015*, February 2-3, 2015, Montreal, Canada.
2. Venkatesagowda, B., Malek, L., Christopher, L. Demethylation of kraft lignin using Boreal Forest inhabiting fungi. *International Forest Biorefining Summit, Paper Week Canada 2015*, February 2-3, 2015, Montreal, Canada.
3. Christopher, L.P., Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E. and Ji, Y. (2014) Selective production of low molecular weight aromatics from biomass by fungal and bacterial co-cultures. *SIMB 2014 Annual Meeting & Exhibition*, July 20-24, St. Louis, MO.
4. Yeash, E.A., Zhuang, Y., Miskimins, K. and Christopher, L.P. (2014) Biological activities of lichen extracts. *SIMB 2014 Annual Meeting & Exhibition*, July 20-24, St. Louis, MO.
5. Christopher, L.P. (2014) Hydrogen production from switchgrass by thermophilic isolates with consolidated bioprocessing capabilities. *SIMB 2014 Annual Meeting & Exhibition*, July 20-24, St. Louis, MO.

6. Adhikari, N., Zhuang, Y., Miskimins, K. and Christopher, L.P. (2014) Biologically active extracts from common milkweed seed oil. *SIMB 2014 Annual Meeting & Exhibition*, July 20-24, St. Louis, MO.
7. Seiler, S.T., Zhuang, Y., Miskimins, K. and Christopher, L.P., (2014) Pharmacological activities of corn cob xylan. *SIMB 2014 Annual Meeting & Exhibition*, July 20-24, St. Louis, MO.
8. Christopher, L.P. (2014) Advantages of thermophilic consolidated bioprocessing for sustainable production of hydrogen. *22nd European Biomass Conference and Exhibition (EU BC&E 2014)*, June 23-26, 2014, Hamburg, Germany.
9. Christopher, L.P., Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E. and Ji, Y. (2014) Selective microbial-based generation of low molecular weight aromatics from lignocellulosic biomass. *22nd European Biomass Conference and Exhibition (EU BC&E 2014)*, June 23-26, 2014, Hamburg, Germany.
10. Christopher, L.P., Seiler, S.T., Zhuang, Y. And Miskimins, K. (2014) Biopharmaceutical potential of xylan derived from corn cobs. *22nd European Biomass Conference and Exhibition (EU BC&E 2014)*, June 23-26, 2014, Hamburg, Germany.
11. Christopher, L.P. (2014) Thermophilic consolidated bioprocessing for sustainable hydrogen production. *36th Symposium on Biotechnology for Fuels and Chemicals*, April 28-May 1, 2014, Clearwater Beach, FL.
12. Christopher, L.P., Seiler, S.T., Zhuang, Y. And Miskimins, K. (2014) Biological activities of corn cob xylan. *36th Symposium on Biotechnology for Fuels and Chemicals*, April 28-May 1, 2014, Clearwater Beach, FL.
13. Christopher, L.P., Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E. and Ji, Y. (2014**)** Microbial production of low molecular weight phenolics and aromatics. *36th Symposium on Biotechnology for Fuels and Chemicals*, April 28-May 1, 2014, Clearwater Beach, FL.
14. Seiler, S., Zhuang, Y., Miskimins, K. and Christopher, L.P. (2014) Biomedical properties of xylan extracted from corn cobs. *5th Nordic Wood Biorefinery Conference (2014 NWBC)*, March 25-27, 2014, Stockholm, Sweden.
15. Christopher, L.P., Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E. and Ji, Y. (2014) Selective generation of biomass-derived aromatic compounds by lignolytic microorganisms. *5th Nordic Wood Biorefinery Conference (2014 NWBC)*, March 25-27, 2014, Stockholm, Sweden.
16. Christopher, L.P., Zambare, V.P., Bhalla, B., Muthukumarappan, K. and Sani, R.K. (2014) Bioethanol production from lignocellulosic biomass utilizing thermophilic cellulases. *5th Nordic Wood Biorefinery Conference (2014 NWBC)*, March 25-27, 2014, Stockholm, Sweden.
17. Christopher, L.P. (2013) Thermophilic consolidated bioprocessing of cellulosic materials to biohydrogen. *Bio Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, December 8-11, 2013, San Diego, CA.
18. Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E., Christopher, L.P. and Ji, Y. (2013) Biodegradation of kenaf for production of low molecular weight phenolics. *Bio Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, December 8-11, 2013, San Diego, CA.
19. Yeash, E.A., Knudsen, K., Zhuang, Y., Miskimins, K. and Christopher, L.P. (2013) Pharmaceutical potential of selected lichen species. *15th Annual NIH SBIR/STTR Conference*, October 28-30, 2013, Sioux Falls, SD.
20. Brzonova, I., Chebeir, M., Kubatova, A., Kozliak, E., Christopher, L.P. and Ji, Y. (2013) Biodegradation of kenaf biomass by Basidiomycetes and Actinobacteria for production of valuable low molecular weight carbohydrates and phenolics. *15th Annual NIH SBIR/STTR Conference*, October 28-30, 2013, Sioux Falls, SD.
21. Adhikari, N., Zhuang, Y., Miskimins, K. and Christopher, L.P. (2013) Potential biomedical applications of common milkweed seed oil. *15th Annual NIH SBIR/STTR Conference*, October 28-30, 2013, Sioux Falls, SD.
22. Christopher, L.P. (2013) Center for Bioprocessing Research and Development: A recent update. *8th Annual SD Biotech Summit and Annual Meeting*, September 19, 2013, Sioux Falls, SD.

23. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2013) Optimization of xylanase production from *Penicillium pinophilum* by a two-step statistical strategy: Plackett-Burman and Response Surface Methodology. *2nd International Society of Biotechnology Conference*, July 8-10, 2013, Antwerp, Belgium.
24. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2013) *In vitro* studies on bioactivities of lichen *Xanthoparmelia somloensis. 2nd International Society of Biotechnology Conference*, July 8-10, 2013, Antwerp, Belgium.
25. Christopher, L.P. (2013) Exploitation of thermophiles for biofuel production. *5th International Conference on Applied Energy*, July 1-4, 2013, Pretoria, South Africa.
26. Christopher, L.P., Talluri, S. and Subramanian, M. (2013) Consolidated bioprocessing of municipal solid waste and energy crops to hydrogen. *5th International Conference on Applied Energy*, July 1-4, 2013, Pretoria, South Africa.
27. Christopher, L.P. and Zambare, V.P. (2013) Discovery and Application of Thermostable Lipases in Biodiesel Production. *5th International Conference on Applied Energy*, July 1-4, 2013, Pretoria, South Africa.
28. Venkata, A.C., Cetin, B. Nam, S. and Christopher, L.P. (2013) Effects of fines content on the properties of enzyme-stabilized gravel roadways in South Dakota**.** *Undergraduate Research Symposium*, April 2, 2013, SDSM&T, Rapid City, SD.
29. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2013) Production optimization and characterization of extremophilic lipase from *Geobacillus thermodenitrificans. International Conference on Advances in Biotechnology and Patenting*, February 18-21, 2013, Tiruchirappalli, Tamil Nadu, India.
30. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2013) *In vitro* studies on antimicrobial and antioxidant activities of lichen *Xanthoparmelia somloensis. International Conference on Advances in Biotechnology and Patenting*, February 18-21, 2013, Tiruchirappalli, Tamil Nadu, India.
31. Zambare, V.P., Zambare, A.V. and Christopher, L.P. (2013) Enzymatic hydrolysis of extrusion pretreated switchgrass at higher temperature for ethanol production. *International Conference on Advances in Biotechnology and Patenting*, February 18-21, 2013, Tiruchirappalli, Tamil Nadu, India.
32. Talluri, S., Subramanian, M.R. and Christopher, L.P. (2012) Thermophilic production of hydrogen from switchgrass and municipal solid waste, *MGCB2 Annual General Meeting*, November 5-6, 2012, Winnipeg, Manitoba, Canada.
33. Lai, C., Zhang, L., Fong, H. and Christopher, L.P. (2012) Lignin utilization in production of electrospun carbon nanofibers with potential for energy storage applications. *2012 AIChE National Meeting*, October 28-November 2, 2012, Pittsburgh, PA.
34. Talluri, S., Subramanian, M.R. and Christopher, L.P. (2012) Advantages of thermophilic hydrogen production from lignocellulosic biomass. *2012 AIChE National Meeting*, October 28 – November 2, 2012, Pittsburgh, PA.
35. Christopher, L.P. Thermophiles for biofuels production. *2012 AIChE National Meeting*, October 28 – November 2, 2012, Pittsburgh, PA.
36. Talluri, S., Subramanian, M.R. and Christopher, L.P. (2012) Single step bioprocessing of biomass to biohydrogen. *International Bioenergy & Bioproducts Conference (IBBC 2012)*, October 17-19, 2012, Savannah, GA.
37. Tungal, R., Shende, R.V., Benjamin, K.M. and Christopher, L.P. (2012) Catalytic liquefaction of biomass for generation of hydrogen and hydrocarbon fuels. *International Symposium on Catalysis for Clean Energy and Sustainable Chemistry,* June 27-29, 2012, Madrid, Spain.
38. Christopher, L.P., Lai, C, Zhang, L. And Fong, H. (2012) Preparation of electrospun carbon nanofibers with increased specific surface area utilizing low cost lignin by-product. (2012) *The Energy & Materials Research Conference (EMR2012)*, June 20-22, 2012, Torremolinos, Malaga, Spain.

39. Christopher, L.P. Talluri, S. and Subramanian, M.R. (2012) Consolidated bioprocessing of lignocellulosic biomass and waste for cost-efficient biohydrogen production. *The Energy & Materials Research Conference (EMR2012)*, June 20-22, 2012, Torremolinos, Malaga, Spain.
40. Zambare, V.P, Sani, R.K. and Christopher, Lew P. (2012) Potential of thermostable cellulases in reduction of bioprocessing costs of ethanol production from switchgrass. 2012 *International Fuel Ethanol Workshop & Expo* (*FEW*), June 4-7, 2012, Minneapolis, MN.
41. Talluri, S., Subramanian, M.R. and Chrsitopher, Lew P. (2012) Towards cost-efficient biohydrogen production on switchgrass utilizing a thermophilic strain of *Caldicellulosiruptor saccharolyticus*. *34th Symposium on Biotechnology for Fuels and Chemicals*, April 30-May 3, 2012, New Orleans, LA.
42. Christopher, L.P. (2012) Bioproducts from hemicellulose in a forest-based biorefinery. *The 2nd Annual World Congress of Bioenergy*, April 25-28, 2012, Xi'an, China.
43. Christopher, L., Zambare, V., Bhalla, A., Muthukumarappan, K. and Sani, R. (2012) Exploitation of thermophilic cellulases for improved ethanol production from lignocellulosic biomass. *The 3rd Symposium on Enzymes & Biocatalysis*, April 25-28, 2012, Xi'an, China.
44. Zambare, V.P. and Christopher, Lew P. (2012) Exploitation of thermophilic enzymes for biodiesel production. 2012 *International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO.
45. Talluri, S., Subramanian, M.R. and Christopher, L.P. (2012) Utilization of lignocellulosic biomass and waste in hydrogen production. *2012 International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO.
46. Zambare, A., Zambare, V.P. and Christopher, L.P. (2012) Antimicrobial and antioxidant activities of lichen species. *2012 International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO.
47. Zambare, V.P., Bhalla, A., Sani, R.K. and Christopher, L.P. (2012) Biomass conversion to fermentable sugars with a thermophilic microbial consortium. *2012 International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO.
48. Zambare, V.P., Muthukumarappan, K. and Christopher, L.P. (2012) Enzymatic hydrolysis of prairie cordgrass to fermentable sugars. *2012 International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO, USA.
49. Zambare, V.P. and Christopher, L.P. (2012) Enhanced xylanase production from corn stover using statistical methods. *2012 International Biomass Conference and Expo*, April 16-19, 2012, Denver, CO.
50. Talluri, S., Subramanian, M.R. and Christopher, L.P. (2012) Production of hydrogen from biomass utilizing a thermophilic bacterium isolate. *2012 CBRD Annual Advisory Board Meeting*, March 8-9, 2012, Rapid City, SD.
51. Christopher, L.P., Muthukumarappan, K. and Zambare, V. (2012) Bioprocessing of prairie cordgrass to ethanol. *2012 CBRD Annual Advisory Board Meeting*, March 8-9, 2012, Rapid City, SD.
52. Bhalla, A., Christopher, L.P., Sani, R.K. and Zambare, V.P. (2012) Bioconversion of biomass agri-waste to ethanol with a thermophilic microbial consortium. *2012 CBRD Annual Advisory Board Meeting*, March 8-9, 2012, Rapid City, SD.
53. Christopher, L.P. and Zambare, V.P. (2012) Screening of lipase-producing microorganisms for potential use in biodiesel production. *2012 CBRD Annual Advisory Board Meeting*, March 8-9, 2012, Rapid City, SD.
54. Christopher, L.P. and Zambare, V.P. (2012) Production of xylanase on corn stover. *2012 CBRD Annual Advisory Board Meeting*, March 8-9, 2012, Rapid City, SD.
55. Zambare, V., Zambare, A. and Christopher, L. (2012) Extremophilic lipase development for biodiesel production. *2nd National Conference on Biotechnology, Bioinformatics and Bioengineering by Society of Applied Biotechnology*, February 24-25, 2012, Kolhapur, Maharashtra, India.

56. Talluri, S., Subramanian, M.R and Christopher, L.P. (2011) Biohydrogen production from lignocellulosic biomass and municipal solid waste. *NSF I/UCRC Bioenergy Center Bi-annual Meeting,* November 3-4, Denver, CO.
57. Talluri, S., Subramanian, M.R and Christopher, L.P. (2011) Biological hydrogen production from municipal solid waste. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
58. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Evaluation of the biopharmaceutical potential of lichen *Xanthoparmelia somloensis*. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
59. Christopher, L.P., Zambare, V., Zambare, A. and Muthukumarappan, K. (2011) Bioprocessing of switchgrass to ethanol utilizing thermostable cellulases. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
60. Lai, C., Zhang, L., Fong, H. and Christopher, L.P. (2011) Lignin-based carbonaceous nano-fibrous felts. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
61. Bhalla, A., Kunreddy, V., Kumar, S., Bischoff, K., Christopher, L.P., Hughes, S.R and R.K. Sani (2011) Thermostable cellulases and xylanases. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
62. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Thermophilic cellulase-producing bacteria from Yellowstone National Park. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
63. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Isolation and screening of thermophilic lipolytic bacteria from Yellowstone National Park with potential for biodiesel production. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
64. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) Enzymatic hydrolysis of pretreated switchgrass at higher temperature. *2011 AIChE Annual Meeting*, October 16-21, 2011, Minneapolis, MN.
65. Zambare, A., Zambare, V. and Christopher, L.P. (2011) Optimization of xylanase production by *Penicillium pinophilum* under submerged fermentation using statistical design. *SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
66. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Enzymatic hydrolysis of prairie cord grass to bioethanol production. *SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
67. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Production and properties of an alkaline thermopilic lipase. *SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
68. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Statistical optimization of enzymatic hydrolysis of corn stover to ethanol. *SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
69. Subramanian, M.R., Talluri, S., Christopher, L.P. (2011) Biohydrogen production from thermophilic *Caldicellulosiruptor saccharolyticus. SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
70. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Biopharmaceutical potential of a *Xanthoparmelia somloensis* lichen**.** *SD Biotech Association: 6th Annual Biotech Summit & Annual Meeting,* September 21, 2011, Sioux Falls, SD.
71. Christopher, L.P., Zambare, V., Bhalla, A., Muthukumarappan, M. and Sani, R. (2011) Potential of a thermophilic isolate and its enzymes in ethanol fermentation of switchgrass. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
72. Zambare, A., Zambare, V. and Christopher, L.P. (2011) Studies on thermophilic lipase-producing microorganisms isolated from Yellowstone National Park. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.

73. Sani, R.K., Bhalla, A., Kunreddy, V., Kumar, S., Rastogi, G., Bischoff, K.M., Hughes, S.R. and Christopher, L.P. (2011) Improving lignocellulose degradation with thermostable enzymes. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
74. Bhalla, A., Kumar, S., Christopher, L.P., Hughes, S.R and R.K. Sani (2011) Overexpression of thermostable enzymes: Lignocellulose hydrolysis. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
75. Zambare, V. and Christopher, L.P. (2011) Statistical optimization of enzymatic hydrolysis of prairie cordgrass for enhanced bioethanol production. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
76. Subramanian, M.R., Talluri, S., Christopher, L.P. (2011) Production of hydrogen from switchgrass by a thermophilic isolate. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
77. Zambare, V. and Christopher, L.P. (2011) Optimization of xylanase production in *Penicillium pinophilum* using Plackett-Burman design and response surface methodology. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
78. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Optimization of glucan hydrolysis of corn stover to ethanol using statistical methods. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
79. Zambare, V., Zambare, A. and Christopher, L.P. (2011) Antioxidant and antibacterial properties of a lichen species isolated from the Black Hills, South Dakota. *2011 SIM Annual Meeting and Exhibition*, July 24-28, 2011, New Orleans, LA.
80. Christopher, L.P. (2011) Bioenergy and bioproducts from forest biomass hemicellulose. *24th International Conference on Efficiency, Cost, Optimization, Simulation & Environmental Impact of Energy Systems* (ECOS 2011), July 3-7, 2011, Novi Sad, Serbia.
81. Christopher, L.P., Zambare, V., Muthukumarappan, M., Bhalla, A., and Sani, R. (2011). Potential of high solids hydrolysis of energy and crop residues with a thermostable cellulase for cost savings in ethanol production. *Fuel Ethanol Workshop & Expo,* June 27-30, 2011, Indianapolis, IN.
82. Tungal, R. Shende, R. Benjamin, K. and Christopher, L. (2011) Catalytic aqueous phase reforming of waste biomass for hydrogen and hydrocarbon production. *NSTI–Nanotech Conference and Expo*, June 13-16, 2011, Boston, MA.
83. Lai, C., Zhang, L., Christopher, L.P. and Fong, H. (2011) Carbonaceous nano-fibrous felts developed from alkali lignin. *2011 Tappi International Conference on Renewable Materials*, June 6-8, 2011, Arlington, VA.
84. Christopher, L.P., Zambare, V., Muthukumarappan, M., Bhalla, A., and Sani, R. (2011). High-solids extrusion, hydrolysis and fermentation of corn stover to ethanol using a thermophilic *Geobacillus* strain. *33rd Symposium on Biotechnology for Fuels and Chemicals*, May 2-5, Seattle, WA.
85. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) Xylanase production by *Penicillium pinophilum* using Plackett-Burman design and response surface methodology. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD, USA.
86. Zambare, V. and Christopher, L.P. (2011) Biopharmaceutical potential of lichens from the Black Hills, South Dakota. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
87. Gautam, A., Gilcrease, P.C., Christopher, L.P. and Menkhaus, T. (2011) Concentration of fermentable sugars within a lignocellulosic biomass hydrolysate by reverse osmosis: Effect of membrane and hydrolysate properties and operating conditions. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
88. Gurram, R.N., Menkhaus, T., Gilcrease, P.C. and Christopher, L.P. (2011) Analysis of heat transfer fouling characteristics during evaporation of clarified pine wood hydrolysate to

concentrate sugars. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.

89. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) Optimization of operational parameters for enzymatic hydrolysis of extruded prairie cordgrass for ethanol production. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
90. Zambare, V., Zambare, A. and Christopher, L.P. (2011) *In vitro* antioxidant and antibacterial activities of lichen *Xanthoparmelia somloensis*. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
91. Zambare, V., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2011) High solids bioprocessing of corn stover to ethanol using statistical methods. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
92. Aditya Bhalla, A., Kunreddy, V., Kumar, S., Bischoff, K.M., Christopher, L.P., Hughes, S.R. and Sani, R. Thermostable cellulases and xylanases. *SD Biotech Research Expo: 1st Annual South Dakota Biotechnology Poster Session*, April 26, 2011, Sioux Falls, SD.
93. Christopher, L.P., Zambare, V., Bhalla, A., Muthukumarappan, M. and Sani, R. (2011) Biomass liquefaction, saccharification, and fermentation to ethanol utilizing a thermophilic *Geobacillus* strain. *The 1st Annual World Congress of Bioenergy*, April 25-29, 2011, Dalian, China.
94. Christopher, L.P. (2011) Enzymes for the Integrated Forest Products Biorefineries. *The 2nd Symposium on Enzymes & Biocatalysis*, April 25-29, 2011, Dalian, China.
95. Sani, R., Bhalla, A., Kunreddy, V., Rastogi, G., Zambare, V., Bischoff, K.M. and Christopher, L.P. (2011) Enhanced lignocellulose conversion using thermophilic microbes and their thermostable enzymes. *The 2nd Symposium on Enzymes & Biocatalysis*, April 25-29, 2011, Dalian, China.
96. Bhalla, A., Rastogi, G., Kunreddy, V.R., Bischoff, K.M., Dixon, D.J., Christopher, L.P. and Sani, R.K. (2011) Thermophilic microbes and their thermostable enzymes for lignocellulose conversion. *Green Energy and Sustainability Conference*, April 15, 2011, Rapid City, SD.
97. Christopher, L.P. (2011) Integrated forest biorefineries: Adding new value before and after pulping. *2011 International Bioenergy and Bioproducts Conference & BioPro Expo Marketplace*, March 14-16, 2011, Atlanta, GA.
98. Bhalla, A., Rastogi, G., Kunreddy, V.R., Bischoff, K.M., Dixon, D.J., Christopher, L.P. and Sani, R.K. (2011) Thermophilic microbes and their thermostable enzymes for lignocellulose conversion. *2011 CBRD Annual Advisory Board Meeting*, March 10-11, 2011, Rapid City, SD.
99. Kunreddy, V.R., Christopher, L.P. and Sani, R.K. (2011) Thermostable xylanases. *2011 CBRD Annual Advisory Board Meeting*, March 10-11, 2011, Rapid City, SD.
100. Zambare, V.P., Zambare, A. and Christopher, L.P. (2011) Response surface methodology for optimization of enzymatic saccharification and ethanol fermentation of corn stover. *International Conference on Biotechnology for Better Tomorrow BTBT-2011 & 15th Convention of the Microbiologists Society*, February 6-9, 2011, Aurangabad, India.
101. Tungal, R., Shende, R., Benjamin, K. and Christopher, L.P. (2010) Hydrogen production using catalytic subcritical pyrolysis of lignocellulosic biomass and its components. *Pacifichem 2010*, December 15-20, 2010, Honolulu, HI.
102. Christopher, L.P., Zambare, V.P., Bandlamudi, S.R.P., Bhalla, A., Muthukumarappan, K., Sani, R.K. (2010) Thermophilic bioprocessing of prairie cordgrass to bioethanol. *Pacifichem 2010*, December 15-20, 2010, Honolulu, HI.
103. Zambare, V.P., Zambare, A., Muthukumarappan, K. and Christopher, L.P. (2010) Utilization of a thermophilic microbial consortium for bioprocessing of lignocellulosic feedstock in South Dakota. *2010 Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, December 11-14, 2010, Honolulu, HI.
104. Christopher, L.P., Zambare, V.P., Bandlamudi, S.R.P., Bhalla, A., Muthukumarappan, K., Sani, R.K. (2010) Thermophilic bioprocessing of prairie cordgrass to ethanol using a cellulolytic

thermophile. *2010 Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, December 11-14, 2010, Honolulu, HI.

105. Zambare, V.P., Zambare, A. and Christopher, L.P. (2010) In vitro antioxidant and antibacterial activities of lichen *Xanthoparmella somloensis*. *2nd International Society BioTechnology Conference ISBT 2010*, December 7-9, 2010, Trivandrum, India.
106. Christopher, L.P. (2010) Integrated forest biorefineries: Production platforms and products. *2010 AIChE Annual Meeting*, November 7-12, 2010, Salt Lake City, UT, USA.
107. Christopher, L.P., Zambare, V., Bhalla, A., Kunreddy, V., Muthukumarappan, K. and Sani, R.K. (2010). Thermotolerant bioprocessing of lignocellulosic biomass for cost-efficient bioethanol production. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT.
108. Zambare, V., Bhalla, A., Kunreddy, V., Muthukumarappan, K., Sani, R.K. and Christopher, L.P. (2010) Production, characterization and application of hydrolytic lignocellulose-degrading enzymes from a thermophilic microbial consortium. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT.
109. Sani, R.K., Bhalla, A., Kunreddy, V., Zambare, V., Bischoff, K., Dixon, D. and Christopher, L.P. (2020) Thermophilic microbes and their thermostable enzymes for lignocellulose conversion. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT, USA.
110. Tungal, R., Shende, R., Benjamin, K. and Christopher, L.P. (2010) Ni-catalyzed aqueous phase liquefaction of biomass for hydrogen production. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT, USA.
111. Gautam, A., Gilcrease, P.C., Christopher, L.P. and Menkhaus, T. (2010) Concentration of fermentable sugars within a lignocellulosic biomass hydrolysate by reverse osmosis: Effect of membrane and hydrolysate properties and operating conditions. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT.
112. Gurram, R.N., Menkhaus, T., Gilcrease, P.C and Christopher, L.P. (2010) Analysis of heat transfer fouling characteristics during evaporation of clarified pine wood hydrolysate to concentrate sugars. *2010 AIChE Annual Meeting,* November 7-12, 2010, Salt Lake City, UT.
113. Zambare, V., Zambare, A., Muthukumarappan, K., Christopher, L.P. (2010) Cellulase production by *Penicillium pinophilum* using Plackett-burman design and response surface methodology. *SD Biotech Association: 5th Annual Biotech Summit,* October 26, 2010, Brookings, SD.
114. Kunreddy, V.R., Litzen, D., Flanegan, K., Litzen, L., Christopher, L.P. and Sani, R.K. (2010) Characterization of thermostable xylanase from a DUSEL isolate. *SD Biotech Association: 5th Annual Biotech Summit,* October 26, 2010, Brookings, SD.
115. Zambare, V., Bandlamudi, S., Bhalla, A., Muthukumarappan, K., Sani, R. and Christopher, L.P. (2010) Utilization of corn stover for cellulase and bioethanol production in South Dakota. *SD Biotech Association: 5th Annual Biotech Summit,* October 26, 2010, Brookings, SD, USA.
116. Bandlamudi, S. R.P., Zambare, V. and Christopher, L. (2010) Biodiesel: Process overview, screening and isolation of lipase producing microbes. *SD Biotech Association: 5th Annual Biotech Summit,* October 26, 2010, Brookings, SD.
117. Bhalla, A., Zambare, V., Gilcrease, P., Sani, R. and Christopher, L. (2010) Characterization of thermostable cellulose-degrading enzyme of deep underground thermophilic isolate. *SD Biotech Association: 5th Annual Biotech Summit,* October 26, 2010, Brookings, SD.
118. Christopher, L.P. (2010) Biochemicals and biomaterials from integrated forest products biorefineries. *Frontiers in Biorefining: Biobased Products from Renewable Carbon.* October 19-22, 2010, St. Simons Island, GA, USA.
119. Tungal, R., Shende, R., Benjamin, K. and Christopher, L.P. (2010) Catalytic pyrolysis mediated conversion of biomass to hydrogen. *Frontiers in Biorefining: Biobased Products from Renewable Carbon.* October 19-22, 2010, St. Simons Island, GA.
120. Sani, R.K., Rastogi, G., Kunreddy, V.R., Bhalla, A., Zambare, V., Bischoff, K.M., Dixon, D.J. and Christopher, L.P. (2010) Enhanced lignocellulose conversion to biofuels using extremophiles. *SIM Annual Meeting and Exhibition*, August 1-5, 2010, San Francisco, CA.

121. Christopher, L.P., Zambare, V., Muthukumarappan, K., Kunreddy, V., Bhalla, A. and Sani, R. (2010) Bioprocessing of agricultural waste to bioethanol utilizing extremophiles and their hydrolytic enzymes. *Organic Recovery & Biological Treatment (ORBIT) 2010*, June 29-July 3, 2010, Herakloin, Greece.
122. Zambare, V. and Christopher, L. (2010) Utilization of agricultural waste for cellulase production by *Aspergillus niger* SB-2. *7th Annual BIO World Congress on Industrial Biotechnology & Bioprocessing,* June 27-30, 2010, Washington DC, USA.
123. Zambare, V., Bundlamudi, S., Bhalla, A., Muthukumarappan, K., Sani, R. and Christopher, L.P. (2010) Opportunities for utilization of corn stover for cellulase and bioethanol production in South Dakota. *Corn Utilization & Technology Conference*, June 7-9, 2010, Atlanta, GA.
124. Kunreddy, V.R., Litzen, D., Flanegan, K., Litzen, L., Christopher, L.P. and Sani, R.K. (2010) Characterization of thermostable xylanase from the thermophilic microbes isolated from the deep subsurface of the Homestake gold mine, Lead, South Dakota. *32nd Symposium on Biotechnology for Fuels and Chemicals,* April 19-22, 2010, Clearwater Beach, FL.
125. Zambare, V., Bhalla, A., Muthukumarappan, M., Sani, R. and Christopher, L. (2010) Biochemical characterization of thermophilic lignocellulose-degrading enzymes and their potential for biomass bioprocessing. *32nd Symposium on Biotechnology for Fuels and Chemicals,* April 19-22, 2010, Clearwater Beach, FL.
126. Bhalla, A., Zambare, V., Gilcrease, P., Sani, R. and Christopher, L. (2010) Properties of thermostable cellulose-degrading enzymes of deep underground thermophilic isolates. *32nd Symposium on Biotechnology for Fuels and Chemicals,* April 19-22, 2010, Clearwater Beach, FL.
127. Sani, R.K., Kunreddy, V.R., Bhalla, A., Zambare, V., Litzen, D.B., Litzen, L., Flanegan, K., Bischoff, K.M., Hughes, S.R., Dixon, D.J. and Christopher, L.P. (2010) Thermophilic microbes and their thermostable enzymes for lignocellulose conversion. *32nd Symposium on Biotechnology for Fuels and Chemicals,* April 19-22, 2010, Clearwater Beach, FL.
128. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2010) Catalytic subcritical hydropyrolysis of waste biomass and selective enrichment of hydrocarbon fuels. *2010 AIChE Spring National Meeting,* March 21-25, 2010, San Antonio, TX.
129. Zambare, V., Bhalla, A., Kunreddy, V., Sani, R. and Christopher, L. (2010) Bioprocessing of lignocellulosic biomass by thermophilic microbial consortia. *239th ACS National Meeting & Exposition*, March 21-25, 2010, San Francisco, CA.
130. Bhalla, A., Kunreddy, V., Zambare, V., Sani, R. and Christopher, L. (2010) Production characteristics of a thermostable cellulase of *Geobacillus* sp. R7 isolated from DUSEL. *239th ACS National Meeting & Exposition*, March 21-25, 2010, San Francisco, CA, USA.
131. Christopher, L., Bhalla, A., Kunreddy, V., Zambare, V. and Sani, R. (2010) Discovery and exploitation of novel thermophilic lignocellulose-degrading enzymes for bioethanol production. *239th ACS National Meeting & Exposition*, March 21-25, 2010, San Francisco, CA, USA.
132. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2010) Catalytic hydrothermal liquefaction of waste paper for hydrogen and hydrocarbon production. *239th ACS National Meeting & Exposition*, March 21-25, 2010, San Francisco, CA.
133. Christopher, L.P. (2009) Hemicellulose bioprocessing to fuels, chemicals and biomaterials. *2009 Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, November 8-11, 2009, Honolulu, HI.
134. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2009) Metal-immobilized mesoporous SiO_2 catalyst for hydrocarbon enrichment during sub-critical hydropyrolysis of waste paper. *2009 Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, November 8-11, 2009, Honolulu, Hawaii, USA.
135. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2009) Catalytic subcritical aqueous phase conversion of waste biomass into biofuels. *2009 AIChE Annual Meeting*, November 8-13, 2009, Nashville, TN.

136. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2009) Subcritical aqueous phase liquefaction of biomass and selective enrichment of hydrogen and hydrocarbon fuels. *EPSCoR South Dakota/Wyoming State Conference*, September 23, Rapid City, SD.
137. Bhalla, A., Zambare, V., Sani, R. and Christopher, L. (2009) Extracellular thermostable cellulase from *Geobacillus sp. R7. EPSCoR South Dakota/Wyoming State Conference*, September 23, Rapid City, SD.
138. Reddy, V.K., Litzen, D., Flanegan, K., Litzen, L., Christopher, L.P. and Sani, R.K. (2009) Production of thermostable xylanases from a DUSEL isolate. *4th Annual South Dakota Biotechnology Summit & Annual Meeting*, September 17, Sioux Falls, SD.
139. Zambare, V., Bhalla, A., Sani, R. and Christopher, L. (2009) Thermostable cellulase and xylanase production from a thermophilic microbial consortium. *4th Annual South Dakota Biotechnology Summit & Annual Meeting*, September 17, Sioux Falls, SD.
140. Kunreddy, V.K., Bhalla A., Vishwakarma, M., Dixon, D., Bang, S., Christopher, L. and Sani, R. (2009) Development of a thermostable enzyme cocktail for rapid release of fermentable sugars from lignocellulosic material, *NSF I/UCRC Bioenergy Center Bi-annual Meeting,* September 9-11, 2009, Rapid City, SD.
141. Adikari, A., Vishwakarma, M., Christopher, L. And Sani, R. (2009) Production and characterization of thermostable cellulases from DUSEL cultures. *NSF I/UCRC Bioenergy Center Bi-annual Meeting,* September 9-11, 2009, Rapid City, SD.
142. Shende, R., Benjamin, K. and Christopher, L. (2009) Novel catalytic thermochemical process for bioenergy production. *NSF I/UCRC Bioenergy Center Bi-annual Meeting*, September 9-11, 2009, Rapid City, SD.
143. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2009) Catalytic subcritical hydropyrolysis of waste biomass and selective enrichment of hydrocarbon fuels. *NSF I/UCRC Bioenergy Center Bi-annual Meeting*, September 9-11, 2009, Rapid City, SD.
144. Christopher, L. and Gibbons, W. (2009) Biofuels and bioprocessing research and development in South Dakota. *IEA Bioenergy "Biofuels & Bioenergy: A Changing Climate"*, August 23-26, Vancouver, Canada.
145. Christopher, L.P. (2009) Bioprocessing potential of integrated forest products biorefineries. *238th ACS National Meeting & Exposition*, August 16-20, 2009, Washington, DC, USA.
146. Christopher, L.P., Rastogi, G., Muppidi, G.L., Lo, C.-M., Gurram, R.N., Adhikari, A., Bang, S.S. and Sani, R.K. (2009) Novel bacterial cellulases for improved saccharification of lignocellulosics. *238th ACS National Meeting & Exposition*, August 16-20, 2009, Washington, DC.
147. Christopher, L.P. (2009) Increasing the value of wood-based lignocellulosic fiber. *6th Annual BIO World Congress on Industrial Biotechnology & Bioprocessing*, July 19-22, 2009, Montreal, Canada.
148. Tungal, R., Shende, R., Benjamin, K. and Christopher, L. (2009) Subcritical catalytic hydropyrolysis of waste biomass into fuel. *6th Annual BIO World Congress on Industrial Biotechnology & Bioprocessing*, July 19-22, 2009, Montreal, Canada.
149. Sani, R.K., Rastogi, G., Muppidi, G.L., Lo, C-M., Gurram, R.N., Adhikari, A., Bang, S.S. and Christopher, L.P. (2009) Discovery of new extremozymes with unique cellulose-degrading properties. *International Fuel Ethanol Workshop & Expo (FEW),* June 15-18, 2009, Denver, CO.
150. Christopher, L. (2009) Challenges and opportunities in the development of integrated forest biorefineries. *5th International Conference on Renewable Resources & Biorefineries*, June 10-12, 2009, Ghent, Belgium.
151. Rastogi, G., Muppidi, G.L., Raghu, G.N., Adhikari, A., Christopher, L.P. and Sani, R.K. (2009) Characterization of extremophilic cellulose-degrading bacteria from the deep subsurface of the Homestake gold mine, Lead, South Dakota, USA. *31st Symposium on Biotechnology for Fuels and Chemicals*, May 3-6, 2009, San Francisco, CA.

152. Lo, Chi-Ming, Muppidi, G.P, Sani, R.K. and Christopher, L.P. (2009) Production and characterization of a thermostable cellulase from *Geobacillus* sp**.** *31st Symposium on Biotechnology for Fuels and Chemicals*, May 3-6, 2009, San Francisco, CA.
153. Tungal, R., Shende, R. and Christopher, L. (2009) Subcritical catalytic aqueous phase conversion of waste paper into bio-oil. *94th Annual SD Academy of Science Meeting,* April 3-4, 2009, Aberdeen, SD.
154. Adhikari, A., Muppidi, G.L., Rastoqi, G, Sani, R.S., Bang, S.S. and Christopher, L.P. (2008) Bioprospecting for extremophiles capable of lignocellulose degradation for biofuels production in South Dakota. *BIO Pacific Rim Summit on Industrial Biotechnology and Bioenergy*, September 10-12, 2008, Vancouver, Canada.
155. Gibbons, W.R. and Christopher, L.P. (2008) Center for Bioprocessing Research and Development. *3rd Annual South Dakota Biotechnology Summit & Annual Meeting.* September 10, 2008, Sioux Falls, SD, USA.
156. Christopher, L. (2008) Challenges in bioprocessing of lignocellulose to fuels and chemicals. *2008 SIM Annual Meeting and Exhibition*, August 10-14, 2008, San Diego, CA.
157. Bang, S.S., Bischoff, K.M., Bleakley, B.H., Christopher, L., Hadi, M., Hughes, S.R., Jordan, D.B., Lee, C.C., Pokkulu, P.R., Sani, R.K., Schiffer, M., Wagschai, K.C. and Wong, D. (2008) Biofuels from DUSEL extremophiles. *DUSEL Workshop on Progress Towards the Initial Suite of Experiments*, April 20-23, 2008, Lead, SD.
158. Ntuli, S.T., Bantcheva, I.G., Christopher, L. and Chipeta, Z.A. (2006) Production of β-xylanase enzymes in an airlift bioreactor with internal loop using spent sulphite liquor as carbon feedstock. *14th Congress of the South African Society of Microbiology (SASM)*, April 9-12, 2006, Pretoria, South Africa.
159. Chipeta, Z.A., Kovacs, K., Szakacs, G. and Christopher, L. (2006) Enzyme production and bleach enhancing capabilities of solid-state xylanases produced by *Trichoderma* isolates. *14th Congress of the South African Society of Microbiology (SASM)*, April 9-12, 2006, Pretoria, South Africa.
160. Kovacs, K., Megyeri, L., Szakacs, G., Chipeta, Z. and Christopher, L. (2006) Production of xylanase with low cellulase activity on eucalyptus soda-aq pulp in solid state fermentation by *Trichoderma* strains. *9th International Workshop on Trichoderma and Gliocladium*. April 8-10, 2006, Vienna, Austria.
161. Du Preez, J.C., Chipeta, Z.A. and Christopher, L. (2005) Xylanase production on sulphite waste liquor as carbon feedstock by *Aspergillus oryzae* in batch and fed-batch cultures. *IUMS 2005. Joint meeting of the divisions of the International Union of Microbiological Societies. XIth International Congress of Mycology*. July 23 – 28, 2005, San Francisco, CA.
162. Kovacs, K., Szakacs, G., Nagy, V., Szendefy, J., Megyeri, L., Takacs, K., Poppe, L., Pandey, A., Tengerdy, R.P., Christopher, L. and Che Omar, I. (2005) Production of enzymes by solid-state fermentation. *1st Central European Forum for Microbiology*. October 26-28, 2005, Keszthely, Hungary.
163. Kandioller, G. and Christopher, L. (2004) Delignification efficiency of *Trametes versicolor* laccase in combination with various mediators. *9th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, October 10-14, 2004, Durban, South Africa.
164. Chipeta, Z.A, du Preez, J.C. and Christopher, L. (2004) Production, characterization and application of *Aspergillus oryzae* xylanase using sulphite waste liquor as carbon feedstock. *9th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, October 10-14, 2004, Durban, South Africa.
165. Szakacs, G., Szendefy, J. and Christopher, L (2004) Biobleaching efficiency of thermostable fungal xylanases produced by solid state fermentation. *9th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, October 10-14, 2004, Durban, South Africa.

166. Kovacs, K., Szakacs, G. and Christopher, L. (2004) Xylanase production by Trichoderma strains in solid substrate fermentation. *8th International Workshop on Trichoderma and Gliocladium*, September 20-23, 2004, Hangzhou, China.
167. Du Preez, J.C, Chipeta, Z.A., Christov, L. and Szakacs, G. (2003) Evaluation of sulphite waste liquor as carbon feedstock for xylanase production by natural and recombinant strains of *Aspergillus*. *11th European Congress on Biotechnology*, August 24-29, 2003, Basel, Switzerland.
168. Du Preez, J.C, Chipeta, Z.A., Christov, L. and Szakacs, G. (2003) Xylanase production by *Aspergillus* strains on sulphite waste liquor as carbon feedstock. *FEMS 2003 – First Congress of European Microbiologists*, June 29-July 3 2003, Ljubljana, Slovenia.
169. Chipeta, Z.A, du Preez, J.C., Szakacs, G. and Christov, L. (2003) Enzyme production by two *Aspergillus* strains using spent sulfite liquor. *12th International Symposium on Wood and Pulping Chemistry* (ISWPC), June 8-12, 2003, Madison, WI.
170. Kandioller, G. and Christov, L. (2003) Hardwood soda-aq pulp bleaching with molybdovanadophosphoric acids. *12th International Symposium on Wood and Pulping Chemistry* (ISWPC), June 8-12, 2003, Madison, WI.
171. Szendefy, J., Szakacs, G. and Christov, L. (2003) Screening of thermophilic fungi in solid state fermentation for xylanase production. *Emerging Frontiers at the Interface of Chemistry and Biology*, April.28-30, 2003, Trivandrum, India.
172. Szendefy, J., Szakacs, G. and Christov, L. (2003). Potential of *Aspergillus oryzae* xylanase produced by solid substrate fermentation for biobleaching of pulp. *225th ACS National Meeting, Symposium on Advances in Biodegradation and Biotransformation of Lignocellulosics,* March 23-27, 2003, New Orleans, LA.
173. Christov, L, Chipeta, Z.A., Szakacs, G. and du Preez, J.C. (2002) Use of industrial effluents for enzyme production. *43rdh Annual Conference of the Association of Microbiologists of India (AMI)*, December 11-13, 2002, Hisar, India,
174. Chipeta, Z.A., du Preez, J.C. and Christov, L. (2002) Use of industrial waste water for xylanase production by two *Aspergillus* strains. *Tappsa 2002 Pulp and Paper Week "Adding Value in a Global Industry"*, October 7-11, 2002, Durban, South Africa.
175. Kandioller, G. and Christov, L. (2002) Catalyst potential of laccase-mediator systems and transition metal polyoxometalates in oxygen bleaching of pulp. *Tappsa 2002 Pulp and Paper Week "Adding Value in a Global Industry"*, October 7-11, 2002, Durban, South Africa.
176. Bissoon, S., Singh, S. and Christov, L. (2002) Synergistic interactions of purified xylanases on bagasse pulp hemicellulose. *Tappsa 2002 Pulp and Paper Week "Adding Value in a Global Industry"*, October 7-11, 2002, Durban, South Africa,
177. Szendefy, J., Szakacs, G. and Christov, L. (2002) Production of xylanase by solid substrate fermentation. *2nd Hungarian Mycological Conference*, May 29-31, 2002, Szeged, Hungary.
178. Szendefy, J., Szakacs, G. and Christov, L. (2002) *In-situ* solid-state fermentation and utilization of xylanase in pulp bleaching. *223rd ACS National Meeting Anselme Payen Award Symposium Honoring Liisa Viikari: Application of Enzymes to Lignocellulosics*, April 7-11, 2002, Orlando, FL.
179. Christov, L., Bissoon, S. and Singh, S. (2002) Effects of purified xylanolytic enzymes of Aspergillus niger on isolated and fiber-bound hemicellulose of bagasse pulp. *ACS National Meeting 1st International Symposium on Xylans, Mannans and Other Hemicelluloses: Biology, Chemistry and Technology*, April 7-11, 2002, Orlando, FL.
180. Chipeta, Z.A., du Preez, J.C. and Christov, L. (2002) Xylanase production by *Aspergillus oryzae* NRRL 3485 and *A. phoenicis* ATCC 13157 on pulp mill effluents. *12th Biennial Congress of the SASM*, April 2-5, 2002, Bloemfontein, South Africa.
181. Kandioller, G. and Christov, L. (2002) Efficiency of *Trametes versicolor* laccase in combination with various mediators in pulp delignification and bleaching. *12th Biennial Congress of the SASM*, April 2-5, 2002, Bloemfontein, South Africa.

182. Bissoon, S., Singh, S., Szakacs, S. and Christov, L. (2002) Production of xylanases by solid substrate fermentation and their evaluation in pulp bleaching. *12th Biennial Congress of the SASM*, April 2-5, 2002, Bloemfontein, South Africa.
183. Szakacs, G., Bogar, B., Szendefy, J., Christov, L. and Tengerdy, R.P. (2002) Production of alpha-amylase and xylanase by solid substrate fermentation. *AMI Symposium on Microbial Biotechnology*, Association of Microbiologists of India, Trivandrum Chapter, January 16, 2002, Trivandrum, India.
184. Christov, L. (2001) Bioremediation of bleach plant effluents. *2001 Tappi Pulping Conference*, November 4-7, 2001, Seattle, WA.
185. Kandioller, G. and Christov, L. (2001) Characterization of pulp types following laccase-mediator pretreatment. Post-Symposium of the *11th International Symposium on Wood and Pulping Chemistry (ISWPC),* Workshop on "*Advanced Methods for Lignocellulose Characterisation"*, Grenoble, June 18-19, 2001, Grenoble, France.
186. Christov, L and Biely, P. (2001) Susceptibility of hardwood dissolving pulp to enzymatic modification. *11th International Symposium on Wood and Pulping Chemistry (ISWPC)*, June 11-14, Nice, France.
187. Maré, J.E., Szendefy, J., Szakacs, G., du Preez, J.C. and Christov, L. (2001) Isolation and evaluation of xylanases from thermophilic and thermotolerant microorganisms in pulp bleaching. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
188. Bissoon, S., Singh, S. and Christov, L. (2001) Evaluation of the bleach enhancing effect of xylanases on bagasse pulp. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
189. Kandioller, G. and Christov, L. (2001) Efficiency of *Trametes versicolor* laccase-mediator systems in pulp delignification and bleaching. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
190. Van Driessel, B. and Christov, L. (2001) Treatment of bleach plant effluent using immobilised fungi in novel rotating biological contactor reactors. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
191. Madlala, A.M., Christov, L. and Singh, S. (2001) Application of xylanases in bleaching of industrial pulps. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
192. Chipeta Z.A., du Preez, J.C. and Christov, L. (2001) The evaluation of xylanase-producing fungi grown on pulp mill effluents. *8th International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 4-8, 2001, Helsinki, Finland.
193. Szakacs, G., Szendefy, J. and Christov, L. (2001) Screening of thermophilic fungi in solid state fermentation for xylanase production. *International Conference on New Horizons in Biotechnology*, April 18-21, 2001, Trivandrum, India.
194. Van Driessel, B., du Plessis, C.A. and Christov, L. (2000) Decolourisation of bleach plant effluent using immobilised fungi in rotating biological contactor reactors. *BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa.
195. Chipeta, Z.A., du Preez, J.C. and Christov, L. (2000) Evaluation of xylanase production by fungi grown on pulp mill effluents. *BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa,
196. Bissoon, S., Singh, S. and Christov, L. (2000) Enzymatic pretreatment in bleaching of bagasse pulp. *BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa.
197. Kandioller, G., Messner, K. and Christov, L. (2000) Comparison of kappa number and brightness change of different pulp types pretreated with laccase-mediator systems. *BIOY2K Combined*

Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry", January 23-28, 2000, Grahamstown, South Africa.

198. Madlala, A.M., Singh, S. and Christov, L. (2000) Biobleaching effects of *Thermomyces lanuginosus* xylanase on paper pulps. *BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa.
199. Bareetseng, A.S., Kock, J.L.F., Christov, L. and Coetzee, D.J. (2000) Tall oil utilisation by fungi in the presence of acetate. *BIOY2K Combined Millenium Meeting 2000*, *Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa.
200. Muzariri, C.C., du Preez, J.C. and Christov, L. (2000) The screening and isolation of potentially thermostable cellulase-free xylan consuming bacteria and fungi from alkaline hot springs of Zimbabwe. *BIOY2K Combined Millenium Meeting 2000, Workshop "Biotechnology in the Pulp and Paper Industry"*, January 23-28, 2000, Grahamstown, South Africa.
201. Christov, L., Kandioller, G. and Messner, K. (2000) Evaluation of the delignification abilities of selected laccases of white-rot fungi on different pulp types. 219th ACS National Meeting Symp. *"Fundamentals and Catalysis of Oxidative Delignification Processes"*, March 26-30, 2000, San Francisco, CA.
202. Kandioller, G. and Christov, L. (2000) Biobleaching of pulps with laccase-mediator systems. *Tappsa 2000 Pulp and Paper Week "2000 and Beyond"*, October 16-20, 2000, Durban, South Africa.
203. Madlala, A.M., Bissoon, S., Singh, S. and Christov, L. (2000) Application of xylanases in bleaching of different pulp types. *Tappsa 2000 Pulp and Paper Week "2000 and Beyond"*, October 16-20, 2000, Durban, South Africa.
204. Christov, L. (2000) Potential of some hydrolysing and oxidative enzymes for pulp and paper production and modification. *2000 Tappi Pulping/Process & Product Quality Conference*, November 5-8, 2000, Boston, MA.
205. Szakacs, G., Bogar, B., Szendefy, J., Christov, L., and Tengerdy, R. (2000) Production of α-amylase and xylanase by solid substrate fermentation. *2000 International Chemical Congress of Pacific Basin Societies*, December 14-19, 2000, Honolulu, HI.
206. Christov, L.P., Szakacs, G. and Balakrishnan, H. (1999) Production and application of *Gliocladium viride* xylanase in pulp bleaching. *Sixth International Trichoderma-Gliocladium Workshop*, June 11-13, 1999, Espoo, Finland.
207. Christov, L.P. and Steyn, M.G. (1999) The use of the white-rot fungus *Trametes nivosa* in bioremediation of pulp effluents. *African International Environmental Protection Symposium '99* (AiEPS '99*)*, July 4-8, 1999, Pietermaritzburg, South Africa.
208. Van Driessel, B., du Plessis, C.A. and Christov, L.P. (1999) Adsorption of colour from a bleachery effluent using a mucoralean fungus. *African International Environmental Protection Symposium '99* (AiEPS '99), July 4-8, 1999, Pietermaritzburg, South Africa.
209. Bissoon, S., Singh, S., Christov, L.P. and Pillay, B. (1999) Bleachboosting effects of ß-xylanase from *Thermomyces lanuginosus* SSBP on bagasse pulp. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. August 22-26, 1999, Itala Game Reserve, South Africa.
210. Chipeta, Z.A., Du Preez, J.C. and Christov, L.P. (1999) Evaluation of xylanase production by fungi grown on pulp mill effluents. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. Itala August 22-26, 1999, Itala Game Reserve, South Africa.
211. Biely, P., Prior, B.A. and Christov, L.P. (1999) Differencies in catalytic properties of endo-ß-1,4-xylanases of families 10 and 11 and their interaction with pulp. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. Itala Game Reserve, South Africa.
212. Van Driessel, B., du Plessis, C.A. and Christov, L.P. (1999) Treatment of bleach plant effluent employing a tubular rotating bioreactor containing immobilised *Coriolus versicolor*. *IEA*

Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose. August 22-26, 1999, Itala Game Reserve, South Africa.

213. Christov, L.P. and Szakacs, G. (1999) Production and application of fungal xylanases in pulp bleaching. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. August 22-26, 1999, Itala Game Reserve, South Africa.
214. Bareetseng, A.S., Christov, L.P., Coetzee, D.J. and Kock, J.L.F. (1999) Utilisation of tall oil derived from kraft mill effluents by fungi in the presence of acetate. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. August 22-26, 1999, Itala Game Reserve, South Africa.
215. De Wet, B.J.M., O'Neill, F.H., Christov, L.P., Van Zyl, W.H. and Prior, B.A. (1999) Characterization of hemicellulose accessory enzyme activities from *Aureobasidium pullulans*. *IEA Bioenergy Workshop on Biotechnology for the Conversion of Lignocellulose*. August 22-26, 1999, Itala Game Reserve, South Africa.
216. Bissoon, S., Pillay, B., Christov, L.P. and Singh, S. (1999) Bleach boosting effect of ß-xylanase from *Thermomyces lanuginosus* SSBP on bagasse pulp. *Sixth Brazilian Symposium on the Chemistry of Lignins and Other Wood Components.* October 25-28, 1999, Guaratinguerta, Brazil.
217. Christov, L.P. (1999) Biotechnology in dissolving pulp manufacture. *1999 Tappi Pulping Conference*, October 31-November 4, 1999, Orlando, Florida, USA.
218. Balakrishnan, H., Szakacs, G., Rele, M.V., Prior, B.A. and Christov, L.P. (1998) Screening of cellulase-free fungal xylanases and evaluation of their performance on sulfite pulp. *Seventh International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI),* June 16-19, 1998, Abstract book, vol. C, pp. C7-C10, Vancouver, Canada.
219. Christov, L.P. and Akhtar, M. (1998) Evaluation of selected *Ceriporiopsis subvermispora* strains for biosulfite pulping and bleaching to prepare dissolving pulp. *Seventh International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI,* June 16-19, 1998, Abstract book, vol. B, pp. C15-B17, Vancouver, Canada.
220. Christov, L.P. and Steyn, M.G. (1998) Modifying the quality of a bleach plant effluent using mucoralean and white-rot fungi. *Seventh International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI),* June 16-19, 1998, Abstract book, vol. B, pp. C15-B17, Vancouver, Canada.
221. Van Driessel, B., du Plessis, C.A., Prior, B.A. amd Christov, L.P. (1998) The role of fungal biomass as adsorbent of chromophores from bleach plant effluent. *Seventh International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI),* June 16-19, 1998, Abstract book, vol. B, pp. C15-B17, Vancouver, Canada.
222. Christov, L.P. and Steyn, M.G. (1998) Fungal biotreatment of industrial pulp mill effluents. *Tenth Biennual Congress of the South African Society of Microbiology*, July 5-8, 1998, Abstract book, P39, Durban, South Africa.
223. Balakrishnan, H., Szakacs, G., Rele, M.V., Prior, B.A. and Christov, L.P. (1998) Impact of fungal xylanases on bleachability if sulphite pulp. *Tenth Biennual Congress of the South African Society of Microbiology*, July 5-8, 1998, Abstract book, P113, Durban, South Africa,
224. Cronje, M., van Biljon, P., Prior, B.A. and Christov, L.P. (1998) Carbohydrate analysis of sulphite pulp. *Second International Congress of the Federation of African Societies of Biochemistry and Molecular Biology and Fifteenth Congress of the South African Society of Biochemistry and Molecular Biology*, September 30-October 3, 1998, Potchefstroom, South Africa.
225. Christov, L.P. (1998) Use of biotechnology to aid manufacture of chemical pulps. *Diamond Jubilee Symposium and 39th Annual Conference of the AMI*, December 5-6, 1998, Mangalore, India.
226. Christov, L.P. and Prior, B.A. (1997) Effect of xylanase pretreatment on bleachability of sulphite pulps. *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.

227. O'Neill, F.H., Christov, L.P. and Prior, B.A. (1997) Production of hemicellulolytic enzymes by microorganisms. *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.
228. Steyn, M.G., Botha, A. and Christov, L.P. (1997) Colour reduction of pulp mill effluents using *Rhizomucor* strains. *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.
229. Wills, K., Tivchev, G.N., Christov, L.P. and Kasan, H.C. (1997) Preliminary investigation of the cultivation of *Aureobasidium pullulans* on spent sulphite liquor. *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.
230. Mosai, S., Wolfaardt, J.F., Christov, L.P. and Prior, B.A. (1997) Evaluation of lignin degrading fungi for biosulphite pulping. *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.
231. Du Plessis, L., Wolfaardt, J.F., Christov, L.P. and Prior, B.A. (1997) Fungal decolourization of bleach plant effluent from a sulphite pulp mill (1997) *Biotech SA '97: Second Grahamstown Conference Biotechnology and Development in Southern Africa*. January 21-24, 1997, Grahamstown, South Africa.
232. Mosai, S., Wolfaardt, J.F., Christov, L.P. and Prior, B.A. (1997) Sulphite biopulping of *Eucalyptus grandis* wood chips with white-rot fungi. *Fifth Brazilian Symposium on the Chemistry of Lignins and Other Wood Components/Workshop of the International Energy Agency on Biotechnology Applied to Lignocellulosic Materials*. August 31-September 4, 1997, Curitiba, Brazil.
233. Christov, L.P. and Prior, B.A. (1997) Assessment of xylanase pretreatment of sulfite pulps in one-stage and multi-stage bleaching to dissolving pulp. *Tappi Biological Sciences Symposium*. October 20-23, 1997, San Francisco, USA.
234. Prior, B.A. and Christov, L.P. (1996) Application of biotechnology to the pulp and paper industry in South Africa. *Regional Conference on the Impact of Microbiology on Socio-Economic Development and Environment in Sub-Sahara Africa*. September 10-15, 1996, Dar es Salaam, Tansania.
235. Christov, L.P. & and Prior, B.A. (1996) The potential of *Aureobasidium pullulans* xylanases in the production of dissolving pulp. *Ninth Biennial Congress of the S.A. Society for Microbiology*. July 8-10, 1996, Pretoria, South Africa.
236. O'Neill, F.H., Christov, L.P. and Prior, B.A. (1996) Production of hemicellulolytic enzymes by microorganisms. *Ninth Biennial Congress of the S.A. Society for Microbiology*. July 8-10, 1996, Pretoria, South Africa.
237. O'Neill, F.H., Botes, P.J., Christov, L.P. Prior, B.A. (1996) A rapid and simple assay for fungal feruloyl and *p*-coumaroyl esterasess. *Ninth Biennial Congress of the S.A. Society for Microbiology*. July 8-10, 1996, Pretoria, South Africa.
238. Mosai, S.A., Christov, L.P. and Prior, B.A. (1996) Biosulphite pulping of *Eucalyptus* wood with selected white-rot fungi. *Ninth Biennial Congress of the S.A. Society for Microbiology*. July 8-10, 1996, Pretoria, South Africa.
239. Steyn, M.G., Christov, L.P. and Prior, B.A. (1996) Improvement of the chemical quality of the bleach plant effluent after biobleaching of sulphite pulp with xylanases. *Ninth Biennial Congress of the S.A. Society for Microbiology*. July 8-10, 1996, Pretoria, South Africa.
240. Christov, L.P. and Prior, B.A. (1996) Reduction of active chlorine charges in bleaching of xylanase-pretreated sulphite pulp. *ACS Symposium on Enzymes for Pulp and Paper Processing*. March 24-28, 1996, New Orleans, LA.
241. Christov, L.P. and Akhtar, M. (1996) Use of *Ceriporiopsis subvermispora* in dissolving pulp production. *ACS Symposium on Environmentally Benign Pulping Methods*. March 24-28, 1996, New Orleans, LA.

242. Christov, L.P. and Wolfaardt, J.F. (1995) Use of biological methods in production of dissolving pulp from eucalyptus wood. Biotechnology for Africa. *All African Conference on Biotechnology*. November 13-15, 1995, Pretoria, South Africa.
243. Christov, L.P., Akhtar, M. and Prior, B.A. (1995) Biobleaching in dissolving pulp production. *Sixth International Conference on Biotechnology in the Pulp and Paper Industry (ICBPPI)*, June 11-15, 1995, Vienna, Austria.
244. Christov, L.P. and Prior, B.A. (1995) Application of biobleaching in dissolving pulp manufacture. *13th Congress of the S.A. Biochemical Society*. April 2-5, 1995, Bloemfontein, South Africa.
245. O'Neill, F.H., Botes, P.J., Christov, L.P. and Prior, B.A. (1995) A simple, rapid method for the detection of ferulic and *p*-coumaric acid used in the determination of feruloyl- and *p*-coumaroyl esterase activity. *13th Congress of the S.A. Biochemical Society.* April 2-5, 1995, Bloemfontein, South Africa.
246. Singh, S., Myburgh, J., Christov, L.P., Pillay, B. and Prior, B.A. (1994) Properties and applications of xylanases from *Aureobasidium pullulans* and other microbial isolates. *Seventh International Symposium on the Genetics of Industrial Microorganisms*. June 26 - July 1, 1994, Montreal, Canada.
247. Singh, S., Myburgh, J., Christov, L.P., Pillay, B. and Prior, B.A. (1994) Properties and applications of xylanases from *Aureobasidium pullulans* and other microbial isolates. *Eighth Biennial Congress of the S.A. Society for Microbiology*. June 26-29, 1994, Grahamstown, South Africa.
248. Christov, L.P. and Prior, B.A. Enzymatic prebleaching of sulphite pulps. (1994) *International Pulp Bleaching Conference*, June 13-16, 1994, Vancouver, Canada.
249. Prior, B.A., Myburgh, J., Christov, L.P. and Van Tonder, A. (1993) Properties of xylan-degrading enzymes from *Aureobasidium pullulans* and their use in the treatment of sulphite pulps. *IEA Symposium on Biotechnology for the Conversion of Lignocellulosics*. June 6-9, 1993, International Energy Agency (IEA), Helsinki, Finland.
250. Christov, L.P. and Prior, B.A. (1993) Treatment of sulphite pulps with xylanolytic enzymes. *First South African Biotechnology Conference*. January 30 - February 3, 1993, Grahamstown, South Africa.
251. Atev, A., Christov, L.P., Pochekanska, A., Peev, P., Kabakchieva, G. and Dimova, L. (1992) Production of ß-glucan degrading enzymes by *Trichoderma reesei* M-27G and their use in the brewing industry. *Seventh Biennial Congress of the S.A. Society for Microbiology.* March 30 - April 1, 1992, Bloemfontein, South Africa.
252. Christov, L.P., Grigorova, Y., Djejeva, G., Stoychev, M Draganova, R. and Vidimsky, E. (1989) Biosynthesis of glucose isomerase using combined inducers. *Seventh National. Congress on Microbiology*. September 26-29, 1989, Varna, Bulgaria.
253. Christov, L. and Draganova, R. (1989) Production of D-xylose from agricultural waste materials. *20th Annual Meeting of the Technical Society of the University of Technology*. October 17-19, 1989, Sofia, Bulgaria.
254. Christov, L.P., Grigorova, Y., Djejeva, G., Stoychev, M., Draganova, R. and Vidimsky, E. (1988) Optimization of acid hydrolysis of some xylan containing raw materials used for the biosynthesis of glucose isomerase. *Second National Conference on Biotechnology*. April 15-19, 1988, Razgrad, Bulgaria.
255. Christov, L.P. and Draganova, R. (1988) Purification of wood hydrolysates using ion exchange chromatography. *International Conference: Use of Chemical Additives in the Production of Cellulose, Paper, Cardboards and Pulp Plates.* May 22-25, 1988, Sofia, Bulgaria.
256. Christov, L.P. and Draganova, R. (1988) Some aspects of xylan utilization. *Seventh International Symposium: Fundamental Research on Wood in Terms of Its Complex Utilization*. July 11-14, 1988, Smolenitze, Czechoslovakia.

257. Christov, L.P. and Draganova, R. (1988) Production of D-xylose from water prehydrolysates. *19th Annual Meeting of the Technical Society of the University of Technology.* October 11-13, 1988, Sofia, Bulgaria.