**KEYNOTE & Plenary PRESENTATIONS**

18. **Opening Plenary Lecture** “Creating Supramolecular Structures with Cellulose Nanocrystals” 4th International Symposium on Emerging Technologies of Puling & Papermaking, November 8-10 2010, Guangzhou, China.

17. **Keynote Session Lecture** “Supramolecular Chemistry Using Nature’s Most Ambundant Template; The Cellulose Nanocrystal” International Workshop on Wood Biorefinery & Tree Biotechnology 21-24 lune 2010, 0rnskldsvik, Sweden.

16. **Keynote Session Lecture** “Analytical and Other Opportunities With Dissolved Wood” Italian Lignin Chemistry Symposium, Italic5, 1-4.Sept..2009, Symp. Proceedings ISBN 978-88-95688-18-3 pp. 81-84, Varenna, Italy, 2009.

15. **Opening Lecture** “Development & Applications of 31P- NMR Spin Trapping; Toward a Detailed Understanding of the Radical Mechanism of Action of Oxidative Enzymes”, Symposium on Advances in Natural Substances Chemistry & Biology, Sala del Consiglio del Dipartimento ABAC-Vecchio Edificio di Agraria-Università della Tuscia, Italy, November 19th 2009.

14. **Plenary Keynote Lecture** ”Opportunities with Dissolved Wood for the Forest Biorefinery” 2nd Annual Biorefinery for the Pulp & Paper Industry, Dec 1-3, 2008, Radisson SAS Royal Hotel, Helsinki, Finland.

13. **Keynote Lecture** ”Towards Probing the Structure of Lignin Without is Prior Isolation Using Quantitaive 31P NMR in Ionic Liquids” COST Action E41 Analytical Tools with Applications to Wood and Pulping Chemistry, May 19-21, 2008, Turku / Åbo, Finland.

12. **Plenary Lecture**, Society for Wood & Polymer Chemistry in Finland, 50 Year Anniversary, Helsinki, Kirkkokatu 6, May 21 2008, “Ionic Liquids, Opportunities for Wood Science and Technology”.

11. **Plenary Lecture** “*On the Propensity of Lignin to Associate”*. Italian Meeting on Lignin Chemistry, *Italic 4,* University of Rome, Tor Vergata University, May 8-10, 2007

10. **Keynote Lecture** *”New Insights into Eucalyptus Lignin & Pulping Chemistry”*, 3rd International Colloquium on Eucalyptus Kraft Pulp, Bello Horizonte, Brazil March 4-7 2007.

9. **Plenary Lecture** “Understanding the Role of Mediators in the oxidation of Kraft Lignin by Laccase”;Iberoamerican Congress on Pulp & Paper Research, Madrid-Cordoba, Nov. 10-12, 2004

8 **Keynote Lecture, “**Supercritical CO2 Oxidation of Lignin for High Value Added Products” 3rd Italian Meeting on Lignin Chemistry, June 23-24, Universita Degli Study, L’Auila, pp. 2-11, 2005.

7. **Plenary Lecture** ”The Signifcance of Lignin Research to the Pulp and Paper Industry” COST Action E41 “Analytical Tools with Applications to Wood and Pulping Chemistry”Dipoli Confernce Centre, Helsinki, Finland , Oct 20,2004.

6. **Keynote Lecture,,** “New Lignin Insights into Pulping and Bleaching.”, 2nd International Symp. Emerging Technologies of Pulping and Papermaking, Guangzhou, PR., China, Oct. 9-11, 2002.

5. **Keynote Lecture,**. “Recent Advances in Wood Chemistry.”, Seventh Brazilian Symposium on the Chemistry of Lignins and Other Wood Components, Uro Minas Hotel, Bello Horizonte, PR. Brazil, Sept. 1- 4 (2001), Oral Presentations Volume, pp. 43-51.

4. **Distinguished Lecture Series,** University of British Columbia, Dept. of Chemical Engineering, “*Recent Advances in Lignin Chemistry,*”Advanced Papermaking Initiative, November 23, 2001.

3. **Plenary Lecture**, From Organic Chemistry to Organic Chemical Technologies, A Symposium In Memory of Professor G. Valkanas “*New Lignin Reactions and Future Research Directions,*” National Technical University of Athens, February 21, 2001.

2. Otaniemi Symposium on Lignin Chemistry 1999, VTT Chemical Technology, Espoo, Finland, **Plenary Lecture**, “Understanding Pulping, Bleaching and Yellowing Using Novel NMR Techniques; A Review of our Work at McGill.” November 9, 1999.

1. **Plenary Lecture,** “Fundamental NMR Studies of Lignins: Emerging Answers to Issues of Concern in Relation to Pulping, TCF Bleaching and Yellowing.”, Fifth Brazilian Symposium on the Chemistry of Lignins and Other Wood Components/Workshop of the International Energy Agency on Biotechnology Applied to Lignocellulosic Materials, Burbon Hotel, Curitiba,Brazil, Aug. 31-Sept.4 1997.

**CONFERENCE PRESENTATIONS**

**(\*Asterisk Signifies the Speaker)**

**2010**

216. Alistair King, Ilkka KIpelaned, Dimitris S. Argyropoulos, “Reactivity of Wood Biopolymers in ionic Liquids” Paper ID no 47, In Ionic Liquids; Novel Processing Platforms of Cellulose & Biomass, Pacifichem 2010, Honolulu, Hawaii, December 15-20 2010

215. Dimitris S. Argyropoulos,B. Li; J. Asikalla; I. Filpponen “Factors Affecting Wood Dissolution & Regeneration of Ionic Liquids” Paper ID no 32, In Ionic Liquids; Novel Processing Platforms of Cellulose & Biomass, Pacifichem 2010, Honolulu, Hawaii, December 15-20 2010

214. Ilari, Filpponen & Dimitris S. Argyropoulos, “Creating Supramolecular Structures with Cellulose Nanocrystals” Volume I , 4th International Symposium on Emerging Technologies of Puling & Papermaking, November 8-10 2010, Guangzhou, China.

213. Umesh P. Agarwal\*, Richard S. Reiner, Ilari Filpponen, Dimitris S. Argyropoulos, Akira Isogai, “Crystallinities of Nanocrystalline and Nanofibrillated Celluloses by FT- Raman Spectroscopy”2010 TAPPI Intl Conf on Nano for the Forest Product Industry, Dipoli Congress Centre, Sept. 27th -29th 2010, Espoo, Finland

212. Ilari Filpponen, Dimitris S Argyropoulos\*, Regular Linking of Cellulose Nanocrystals via Click Chemistry-Synthesis and Formation Chareacterization of Cellulose nanoPlatelet Gels, 11th European Workshop on Lignocellulosics & Pulp August 16-19, 2010, Hamburg, Gerrnany.

211. Janne Asikkala\*; Tarja Tamminen; Stella Rovio; Annika Smeds, Tapani Suortti; Martti Alkio; Rafaelle Saladino; Dimitris S Argyropoulos, Oxidation of lignin with hydrogen peroxide catalysed by methyltrioxorhenium in supercritical CO2 and in water,**,** 11th European Workshop on Lignocellulosics & Pulp August 16-19, 2010, Hamburg, Gerrnany.

210. [Alistair W. T. King\*, Paula Jarvi, Anna Olszewska, Ilkka Kilpelainen, Dimitris S. Argyropoulos](http://abstracts.acs.org/chem/239nm/program/view.php?obj_id=13130&terms=" \t "_blank)[Solubility of wood and wood biopolymers in ionic liquids; 239th ACS National Meeting & Exposition March 21-25, 2010, San Francisco, California, paper no, 328](http://abstracts.acs.org/chem/239nm/program/view.php?obj_id=13130&terms=" \t "_blank)

209. Li, B\*, Ilari Filpponen, Janne Asikkala, .Dimitris S Argyropoulos, Factors Affecting Woood Dissolution and Regeneration of Ionic Liquids**,** 239th ACS National Meeting & Exposition March 21-25, 2010, San Francisco, California, paper no, 129

208. [Yu Liu\*, Lucian Lucia, .Dimitris S Argyropoulos Elucidation of the lignin chemistry and delignification mechanism occurring during green liquor pretreatment and kraft pulping of softwood by the use of ionic liquids; 239th ACS National Meeting & Exposition March 21-25, 2010, San Francisco, California, paper no, 39](http://abstracts.acs.org/chem/239nm/program/view.php?obj_id=6564&terms=" \t "_blank)

207. Ilari Filpponen\*, Dimitris S Argyropoulos, “Formation & Characterization of Cellulose nanoPlatelet Gels”, 239th ACS National Meeting & Exposition March 21-25, 2010, San Francisco, California, paper no, 107

206.[Li, B\*, .Ilari Filpponen, Janne Asikkala, .Dimitris S Argyropoulos, Acid hydrolysis of wood in ionic iquids](http://abstracts.acs.org/chem/239nm/program/view.php?obj_id=6026&terms=)**,** 239th ACS National Meeting & Exposition March 21-25, 2010, San Francisco, California, paper no, 92

**2009**

205. Argyropoulos, D..S\*. ‘Green Chemistry Biomass Processing Platforms”, Society of Environmental Toxicology and Chemistry (SETAC) Annual Meeting, 30th anniversary, Green Biorefinery session, Hilton , Riverside, New Orleans, November 19-23, 2009.

204. Maija-Liisa Mattinen\*, Ilari Filpponen, Riikka Järvinen, Bin Li, Heikki Kallio, Johanna Bouhert, Pekka Lehtinen, Dimitris S. Argyropoulos, ”Structural Characterization of Suberin Isolated from Potatos;Italian Lignin Chemistry Symposium , Italic5, 1-4. Sept.2009, Symp. Proceedings ISBN 978-88-95688-18-3 pp. 36-39, Varenna, Italy, 2009.

203. Alistair King\*, Paula Järvi, Ilkka Kilpeläinen, Anna Olszewska., I., Dimitris Argyropoulos, “Solubility and Reactivity of Wood Biopolymers in Ionic Liquids” 2rd Nordic Wood Biorefining Conference , Sept.2nd to 4th Finlandia Hall, Helsinki Finland, 2009.

202. Alistair King\*, Dimitris Argyropoulos, Paula Järvi, Ilkka Kilpeläinen, Anna Olszewska., I., “Solubility and Reactivity of Wood Biopolymers in Ionic Liquids” 3rd Congress on Ionic Liquids , May 31st to June 4th Cairns Convention Centre, Cairns Australia, 2009.

201. Filpponen\*, I. & Dimitris S. Argyropoulos, “Cellulose Nanocrystrals as Scaffolds for Nandevices” Italian Lignin Chemistry Symposium , Italic5, 1-4. Sept.2009, Symp. Proceedings ISBN 978-88-95688-18-3 pp. 105-108, Varenna, Italy, 2009.

200. Luca Zoia\* & Dimitris S. Argyropoulos, “31P NMR Spin Trapping: A New Tool for Understanding Radical Mechanisms in Lignin Chemistry, Italic5, 1-4.9.2009, Symp. Proceedings ISBN 978-88-95688-18-3 pp. 71-74, Varenna, Italy, 2009.

199. Tarja Tamminen\*, Markku Leskelä, Dimitris S. Argyropoulos, Liisa Viikari, Kari Kolppo, Stefan Willför, Kristiina Poppius-Levlin, Alan Fernyhough, Lucian Lucia “LigniVal:Adding Value to Lignin”Italian Lignin Chemistry, Italic5, 1-4.9.2009, Symp. Proceedings ISBN 978-88-95688-18-3 pp. 197-198,Varenna, Italy, 2009.

198. Maija-Liisa Mattinen, Evanthia Monogioudi, Emilia Selinheimo, Raija Lantto,Kristiina Kruus, Johanna Buchert, Maarit Hellman, Nisse Kalkkinen, Perttu Permi, Nathalie Creusot, Harry Gruppen, Bin Li, Ilari Filpponen, & Dimitris S. Argyropoulos, ; Modification of Proteins by Tyrosinase and Laccase”, 237th ACS National Meeting, Salt Lake City, USA, Division of Cellulose & Renewable Materials, March 2009.

**2008**

197. Liu**\*** Yu, Huaiyu, Zhan, Jiachuan Chen, I., Argyropoulos, D. S. “Lignin Structural and Molecular Weight Changes & their Relationship 'During Kraft Pulping”, pp , International Conferecne on Pulping, Paper making & Biotechnology, Nanjing Foresty University, Nov 4-6, 2008

196. Filpponen**\***, I., Argyropoulos, D. S. “ Determination of Cellulose Reactivity by using phosphitylation and Quantitative 31P NMR spectroscopy”, pp 169-172, 10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, August 25-28, 2008

195 L. Zoia**\***, Argyropoulos., D. S., “Understanding the Radical Mechanism of Action of Oxidative Enzymes on the Lignocellulosic Substrate Using Quantitative 31P NMR Spin Trapping”, pp.105-108,10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, August 25-28, 2008

194. Järvi**\***, P., Olszewska, A King, A, Granstrom, M., Hietala, S., Kilpeläinen, I., Argyropoulos., D. S., “Study of the Rheological Behaviour of Micro Crystalline Cellulose, Dissolved in Two Different Ionic Liquids.”pp177-180, 10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, August 25-28, 2008

193.Mattinen,\* M. L. Suortti,T., Gosselink, R., Argyropoulos, D. S, Evtuguin, D., Suurnäkki, A., de Jong, E., Tamminen, T., “Polymerization of Different Lignins by *Trametes* *Hirsuta* Laccase” 10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, pp.201-204, August 25-28, 2008

192 L. Zoia**\***, Argyropoulos., D. S., “Microwave Assisted Lignin Isolation Using the Enzymatic Mild Acid Hydrolysis (EMAL) Protocol” 10th European Workshop on Lignocellulosics & Pulp, Stockholm, pp. 490-493, Sweden, August 25-28, 2008

191. King**\***, A., Järvi, P., Olszewska, A. M., Kilpeläinen, I., Argyropoulos., D. S., “*In-Situ* Quantitative Analysis and Discussion of Lignin Functionalities in Wood Based on Ionic Liquids.” pp. 32-35, 10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, August 25-28, 2008

190. Olszewska**\*** A. M. Järvi, P., King , A., Kilpeläinen, I., Argyropoulos., D. S., “Determination of theMolecular Weight Distribution of Intact Spruce Wood Acetylated in Ionic Liquid Media” pp. 222-225, 10th European Workshop on Lignocellulosics & Pulp, Stockholm, Sweden, August 25-28, 2008

189. Filpponen**\***, I., Argyropoulos, D. S. “ Determination of the accessible hydroxyl groups in cellulose by using phosphitylation and 31P NMR spectroscopy” 235rd ACS National Meeting, New Orleans, LA, April 6-10, 2008, Paper #1058041.1169284

188. Filpponen**\***, I., Argyropoulos, D. S. and L. Lucia “ Cellulose Nanocrystals as Scaffolds or Nanodevises.” 235rd ACS National Meeting, New Orleans, LA, April 6-10, 2008, Paper #1168143

187. Xie**\***, H., King, A., Kilpelainen, I., Granström, M., Argyropoulos, D. S. ”Thorough Chemical Modification of Wood Based Lignocellulosic Materials in Ionic Liquids” 235rd ACS National Meeting, New Orleans, LA, April 6-10, 2008, Paper #1058041.

186. King**\***, A., Sun, H., Xie, H. Kilpelainen, I. Granstrom M., I., Argyropoulos, D. S. “ Novel Ionic Solvents for Lignocellulose Analysis and Derivatisation” 235rd ACS National MeWood based Lignocellulosic Materials in Ionic Liquids”, 235rd ACS National Meeting, New Orleans, LA, April 6-10, 2008, Paper #1058041.1168143

185. Contreras**\***, S., Argyropoulos, D. S. and L. Lucia “On the Propensity of Lignin to Associate; Static Light Scattering Measurements on Native Lignin” 235rd ACS National Meeting, New Orleans, LA, April 6-10, 2008.

**2007**

184. King\* W. T. Alistair, Xie Haibo, Kilpelainnen Ilkka, , Argyropoulos, D. S, “Protocols for 31P NMR Analysis of Lignocellulosics Using Ionic Liquids T*”*. 2nd International Congress on Ionic Liquids , August 5-10, 2007, Yokohama , Japan .

183. King\* W. T. Alistair, Xie Haibo, Granstrom, Mari, Kilpelainnen Ilkka, , Argyropoulos, D. S, “Toward an Understanding of the Wood Dissolution Process in Ionic Liquids*”*. 11th Annual Green Chemistry and Engineering Conference , Paper no. 16, June 26-29, 2007, Washington DC. USA.

182. Ilari Filpponen\*, Xinqwu Wang, Lucian A. Lucia, Dimitris S. Argyropoulos, *“Formation and Thermal Properties of Cellulose Nanocrystals*” – International Conference on Nanotechnology for Forest Products Industry , Knoxville, Tennessee, USA, June 13-15, 2007.

181. Kilpelainnen\* Ilkka, Xie Haibo, Granstrom Mari, King Alistair, , Argyropoulos, Dimitris S, “*Wood Solutions”*. Italian Meeting on Lignin Chemistry, *Italic 4,* University of Rome, Tor Vergata University, pp. 45-48, May 8-10, 2007

180. Guerra, A., Gaspar, A., Contreras, I. S., Lucia L., Crestini, C., Argyropoulos\*, D. S., *“On the Propensity of Lignin to Associate”*, International Symposium on Wood, Fiber & Pulping Chemistry, Durban South Africa June 25-28, 2007.

179. Haibo Xie,\* Dimitris S. Argyropoulos, Ionic Liquids: A Powerful Tool for Biorefineries, Advance Polymeric Materials Symposium of Chinese Academy of Sciences, Ningbo Institute of Material Technology & Engineering, Chinese Academy of Sciences, May 5-May 9, 2008.

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177. Soriano, J., Venditti, R., Argyropoulos\*, D.S. , “*The Concept of Critical Micelle Pressure and its Utility towards Natural Product Extraction from Complex Natural Substartes”* International Symposium on Wood, Fiber & Pulping Chemistry, Durban South Africa June 25-28, 2007.

176. Filpponen\*, I., Guerra, A., Hai, A., Lucia, L., Argyropoulos, D. S., “*Spectral Monitoring of the Formation and Degradation of Polysulfide Ions in Alkaline Conditions”* International Symposium on Wood, Fiber & Pulping Chemistry, Durban South Africa June 25-28, 2007..

175. Ysambertt\*, F., Infante M. , Rojas O.J., Gaspar A., Argyropoulos D.S., Bravo, B., Cáceres A., Chavez, C., Bullón, J. *“Un Rápido Procedimiento para la Acetilación de Ligninas Asistida por Microondas (Fast Microwave-Assisted Lignin Acetilation),* 8th Venezuelan Chemistry Congress, Caracas, June 24-28, 2007.

174. Piña, N., Ysambertt, F., Infante, M., Bravo, B., Chávez, G., Berrío, N., Cáceres, A., Bullón, J., Rojas\*, O.J., Argyropoulos, D.S., Gaspar, A.R., Marquez, N., *“Modificación Estructural de Ligninas Asistida por Microondas y Evaluación de su Carácter Anfifilico (Microwave-Assisted Structural Modification of Lignins & Evaluation of their Amphiphilic Properties)*, 8th Venezuelan Chemistry Congress, Caracas, June 24-28, 2007.

173. Lucian A. Lucia,\* Dimitris S. Argyropoulos, Armindo Gaspar, Lambrini Adamapoulos “*A Review of Biomass as a New Feedostock for the Material & Energy Needs of the 21st Century”*. Italian Meeting on Lignin Chemistry, *Italic 4,* University of Rome, Tor Vergata University, pp. 13-19, May 8-10, 2007.

172. Ilari Filpponen\*, Xinqwu Wang, Lucian A. Lucia, Dimitris S. Argyropoulos, *“Effect of reaction conditions on the formation and thermal behavior of cellulose nanocrystals*” - 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, , Paper #1058041.

171. Armindo R. Gaspar, I. Sofia Contreras\*, Anderson Guerra, Lucian A. Lucia, and Dimitris S. Argyropoulos

*“Association Phenomena of Lignin Isolated from Wood Investigated by Light Scattering*” - 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, Paper #106384.

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165. Song, J., Rojas\*, O. J., Hubbe, M., Wang Wu, Argyropoulos, D. S., Wang, X., ”*Amphoteric Polymers in Papermaking”* Iberoamerican Congress on Pulp & Paper Research, Sandiago Chile Oct 23-27, 2006.

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163. Rojas\*, O. J., Bullón, J., Ysambertt, F., Forgiarini, A., Argyropoulos, D. S., Gaspar A., R., ”*Phase Behavior of Lignins and Formulation of Oil in Water Emulsions*” 9th European Workshop for Lignocellulosics & Pulp, Vienna Austria August 27th -31st , pp. 471-475, 2006

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160. Gaspar\* A., R., Saquing, C., D., Soriano, N., U., Jr., Lucia, L. A., Argyropoulos, D. S., ”Lignin Oxidation & Fragmentation in Supercritical Fluids and Expanded Liquids” 9th European Workshop for Lignocellulosics & Pulp, Vienna Austria , August 27th -31st , pp 262-265, 2006.

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145. Chong\*, C. W., Rojas, O., Argyropoulos, D.S. “Degradation of Nano-Scale Films of Cellulose and Lignin by Using Piezoelectric Resonators,” 233rd, American Chemical Society Meeting & Exposition, Atlanta, Georgia, March 26 - 30, 2006.

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141. Jurasek\*, L. and Argyropoulos, D. S., “Modeling of the Effect of Lignin Crosslinking on its Reactivity”**,** 1st Applied Molecular Modelling Pulp & Paper Symposium,Montreal , Canada ,pp 127-132, August 24-26 (2005), **Invited Lecture.**

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