

American Chemical Society
Division of Cellulose and Renewable Materials
255th ACS National Meeting, New Orleans, LA, March 18-22, 2018 Spring Meeting

M. Roman, Program Chair

SUNDAY MORNING

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; A. D. French, Presiding; S. Renneckar, Presiding Papers 1-8

New Horizons in Sustainable Materials

S. M. Murphy, Organizer; M. Roman, Organizer; M. Roman, Presiding; S. M. Murphy, Presiding Papers 9-16

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries

H. Kamitakahara, Organizer; C. Wong, Organizer; G. Boons, Presiding; A. Dell, Presiding; J. C. Paulson, Presiding; L. C. Hsieh-Wilson, Presiding Papers 17-24

Failed Brilliance in Nanocellulose Science & Technology

A. Bismarck, Organizer; E. Kontturi, Organizer; K. Lee, Organizer; A. Bismarck, Presiding; K. Lee, Presiding Papers 25-32

Wood-Based Materials for Energy & Water

L. Hu, Organizer; S. Lee, Organizer; L. Nyholm, Organizer; Z. Ren, Organizer; L. Wagberg, Organizer; J. Zhu, Organizer; S. Lee, Presiding; Z. Ren, Presiding Papers 33-40

SUNDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; L. Salmén, Presiding; T. Saito, Presiding Papers 41-48

New Horizons in Sustainable Materials

S. M. Murphy, Organizer; M. Roman, Organizer; M. Roman, Presiding; S. M. Murphy, Presiding Papers 49-56

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries

H. Kamitakahara, Organizer; C. Wong, Organizer; Y. Ito, Presiding; A. Planas, Presiding; B. G. Davis, Presiding; M. Aebi, Presiding Papers 57-64

Assembly & Colloidal Interactions of Cellulose Nanocrystals

C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding Papers 65-72

Wood-Based Materials for Energy & Water

L. Hu, Organizer; S. Lee, Organizer; L. Nyholm, Organizer; Z. Ren, Organizer; L. Wagberg, Organizer; J. Zhu, Organizer; F. Jiang, Presiding; L. Wagberg, Presiding Papers 73-80

SUNDAY EVENING

General Posters

M. Roman, Organizer; Papers 81-135

MONDAY MORNING

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; K. J. Edgar, Presiding; A. Isogai, Presiding Papers 136-143

2018 ACS Sustainable Chemistry & Engineering Lectureship Awards: Symposium in honor of Rafael Luque

S. O. Obare, Organizer; G. Beckham, Presiding; S. O. Obare, Presiding Papers 144-151

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries

H. Kamitakahara, Organizer; C. Wong, Organizer; K. J. Edgar, Presiding; T. J. Heinze, Presiding; L. L. Kiessling, Presiding; L. Wang, Presiding Papers 152-159

Assembly & Colloidal Interactions of Cellulose Nanocrystals

C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding Papers 160-167

Wood-Based Materials for Energy & Water

L. Hu, Organizer; S. Lee, Organizer; L. Nyholm, Organizer; Z. Ren, Organizer; L. Wagberg, Organizer; J. Zhu, Organizer; H. Zhu, Presiding; L. Nyholm, Presiding Papers 168-175

MONDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; T. Larsson, Presiding; T. Kondo, Presiding Papers 176-181

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; S. Sarkanen, Presiding; M. K. Osterberg, Presiding Papers 182-187

Frontiers in Glycoscience, Bridging the Gap Between Carbohydrate & Polysaccharide Chemistries

H. Kamitakahara, Organizer; C. Wong, Organizer; H. Kamitakahara, Presiding; C. Wong, Presiding Papers 188-193

Assembly & Colloidal Interactions of Cellulose Nanocrystals

C. Schütz, Organizer; W. Thielemans, Organizer; W. Thielemans, Presiding Papers 194-199

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus

A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding Papers 200-205

MONDAY EVENING

Sci-Mix

M. Roman, Organizer; Papers 86, 103, 81, 108, 327, 322, 392, 111, 112, 85, 40, 131, 97, 413, 115, 116, 230, 124, 48, 101, 51, 117, 88, 283, 384, 120, 89, 83, 121, 399, 191, 132, 122, 107, 134, 95, 123, 102, 96, 70, 125, 133, 128, 204

TUESDAY MORNING

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; S. H. Kim, Presiding; T. Rosenau, Presiding Papers 206-213

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; H. Lange, Presiding; C. Crestini, Presiding Papers 214-221

2018 ACS Sustainable Chemistry & Engineering Lectureship Awards: Symposium in honor of Ning Yan

J. Zhang, Organizer; J. Zhang, Presiding Papers 222-229

Biobased Water Purification System Approaches

H. Jameel, Organizer; N. S. Simon, Organizer; R. Gonzalez, Presiding; L. A. Lucia, Presiding Papers 230-237

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus

A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding Papers 238-245

TUESDAY AFTERNOON

Cellulose & Other Structural Biopolymers: Structure, Formation & Degradation: Anselme Payen Award Symposium in Honor of Junji Sugiyama

U. P. Agarwal, Organizer; R. H. Atalla, Organizer; H. Chanzy, Organizer; A. Isogai, Organizer; U. P. Agarwal, Presiding; Y. Nishiyama, Presiding Papers 246-252

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; D. Da Silva Perez, Presiding; C. Crestini, Presiding Papers 253-258

Functional Structures from Wood-Based Materials

M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; S. Spirk, Presiding; M. K. Ek, Presiding Papers 259-264

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems

M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; M. L. Auad, Presiding Papers 265-270

Sustainable Production & Processing of Agricultural Crops: The Food, Energy, Water Nexus

A. Ayoub, Organizer; B. Ghotra, Organizer; L. A. Lucia, Organizer; T. Younos, Organizer; A. Ayoub, Presiding Papers 271-276

WEDNESDAY MORNING

Plant Heteropolysaccharides: Interactions within Lignocellulosics, New Modifications & Future Applications

K. S. Mikkonen, Organizer; M. Tenkanen, Organizer; F. Vilaplana, Organizer; F. Vilaplana, Presiding; M. Tenkanen, Presiding Papers 277-283

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; M. K. Osterberg, Presiding; H. Lange, Presiding Papers 284-291

Functional Structures from Wood-Based Materials

M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; W. Bauer, Presiding; T. Nypelo, Presiding Papers 292-299

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems

M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; J. Campos-Teran, Presiding Papers 300-307

Biobased Gels & Porous Materials

T. Budtova, Organizer; F. Liebner, Organizer; F. Liebner, Presiding; S. J. Eichhorn, Presiding Papers 308-315

WEDNESDAY AFTERNOON

Plant Heteropolysaccharides: Interactions within Lignocellulosics, New Modifications & Future Applications

K. S. Mikkonen, Organizer; M. Tenkanen, Organizer; F. Vilaplana, Organizer; U. Edlund, Presiding; K. S. Mikkonen, Presiding Papers 316-323

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; D. Argyropoulos, Presiding; M. Sipponen, Presiding Papers 324-331

Functional Structures from Wood-Based Materials

M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; J. O. Zoppe, Presiding; I. Filpponen, Presiding Papers 332-339

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems

M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; D. Estenoz, Presiding Papers 340-347

Biobased Gels & Porous Materials

T. Budtova, Organizer; F. Liebner, Organizer; N. Baccile, Presiding; C. Freire, Presiding Papers 348-355

THURSDAY MORNING

Advances in Bacterial (Nano)Cellulose Research

M. Gama, Organizer; D. O. Klemm, Presiding; T. Rosenau, Presiding Papers 356-363

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer; M. K. Osterberg, Organizer; U. P. Agarwal, Presiding; H. Lange, Presiding Papers 364-371

Functional Structures from Wood-Based Materials

M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O. Zoppe, Organizer; M. Laborie, Presiding; I. Filpponen, Presiding Papers 372-379

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems

M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; O. Rojas, Presiding Papers 380-387

Biobased Gels & Porous Materials

T. Budtova, Organizer; F. Liebner, Organizer; J. Bras, Presiding; K. Syverud, Presiding Papers 388-395

THURSDAY AFTERNOON

Advances in Bacterial (Nano)Cellulose Research

D. O. Klemm, Organizer; T. Rosenau, Organizer; M. Gama, Presiding; S. Bielecki, Presiding
Papers 396-403

Lignin: From Fundamentals to New Materials & Applications

C. Crestini, Organizer; H. Lange, Organizer; M. Mattinen, Organizer; M. Sipponen, Organizer;
M. K. Osterberg, Organizer; M. K. Osterberg, Presiding; M. Mattinen, Presiding Papers 404-411

Functional Structures from Wood-Based Materials

M. K. Ek, Organizer; E. Filpponen, Organizer; T. Nypelo, Organizer; S. Spirk, Organizer; J. O.
Zoppe, Organizer; M. K. Ek, Presiding; J. O. Zoppe, Presiding Papers 412-419

Valorization of Renewable Resources & Residuals into New Materials & Multiphase Systems

M. L. Auad, Organizer; J. Campos-Teran, Organizer; O. Rojas, Organizer; I. Vega Erramuspe,
Presiding Papers 420-427

Biobased Gels & Porous Materials

T. Budtova, Organizer; F. Liebner, Organizer; P. E. Fardim, Presiding; T. Budtova, Presiding
Papers 428-435