



# *2019 International Conference on Nanotechnology for Renewable Materials*

*Chiba, Japan · 3 — 7 June 2019*

Held in conjunction with the Nanocellulose Forum (NCF)

Welcome      ようこそ      欢迎

## **TAPPI 2019 International Conference on Nanotechnology for Renewable Materials**



**Co-located with the  
Nanocellulose Forum's (NCF)  
Nanocellulose Exhibition**

# The NanoDivision – Our Mission & Vision

## Global Forum on Renewable Nanomaterials:

- Advance research, development and deployment
- Disseminate knowledge
- Support applications



[www.tappinano.org](http://www.tappinano.org)



# 14<sup>th</sup> Year of the Conference!

## The Who's Who in Cellulose Nanomaterials:

- Research & Development
- Academic, Government, Industry
- Producers
- End-users

2006



2019

### 2019

## International Conference on Nanotechnology for Renewable Materials

Unlock Product Potential with Renewable Nanomaterials

3-7 June 2019  
Makuhari Messe International Convention Hall • Chiba, Japan

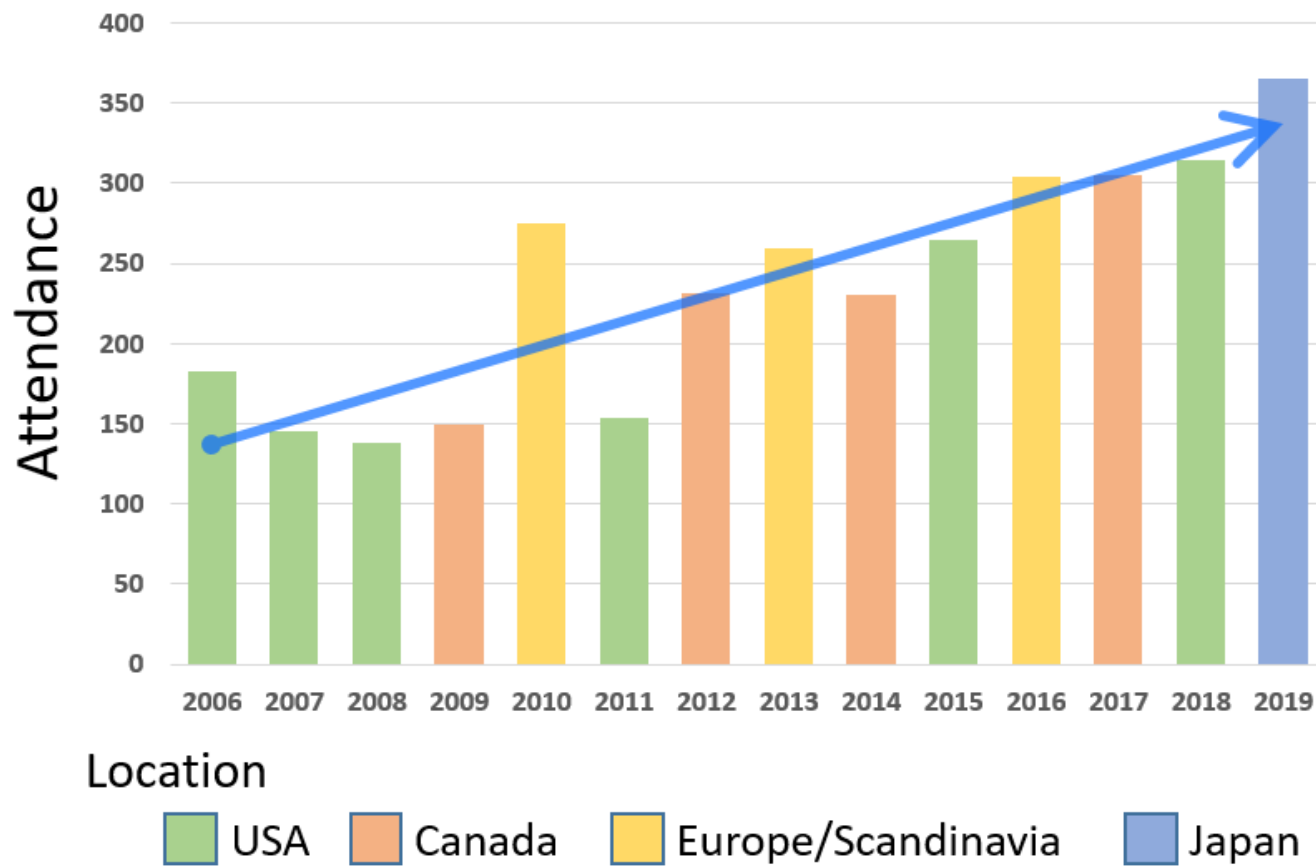
[conference.tappinano.org](http://conference.tappinano.org)

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THIRDDAY LUNCH SPONSOR		FOSTER COMPETITION SPONSOR		THIRDDAY LUNCH SPONSOR	



# A Growing Community

## Attendance at TAPPI's NANO Conference





## Growing Community: Many New Faces

**Registration: 385**

- Countries: 26
- Japan: 114 ~30%
- China: 67 ~18%
- North America: 68 ~18%
- Europe: 67 ~18%
- Asia - Other, Australia, South America: 69 ~18%
- Nonmember: 257 ~67%
- First time attendee: 221 ~58%
- Students: 81 ~21%
- Industry: 151 ~39%
- Academic/Other: 234 ~61%





## NanoDivision Leadership Team



**Robert Moon**  
USDA Forest Service  
Chair



**Emily Cranston**  
University of British Columbia  
Vice Chair



**Lars Axrup**  
Stora Enso  
Secretary



**Making Conference Possible: Volunteers!!!**



*Thank you*



## Conference Co-Chairs



**Professor  
Akira Isogai**  
University of Tokyo



**Dr. Alan Rudie**  
USDA Forest  
Service, Forest  
Products  
Laboratory



**Professor Min Wu**  
Technical Institute of  
Physics and  
Chemistry, Chinese  
Academy of  
Sciences



**Assistant Professor  
Nathalie Lavoine**  
North Carolina State  
University



**Professor  
Lars Berglund**  
Wallenberg Wood  
Science Center, KTH  
Royal Institute  
of Sweden





## Technical Program Co-Chairs



***Dr. Heli Kangas***  
*VTT Technical Research  
Centre of Finland*



***Dr. Michael Reid***  
*KTH Royal Institute of  
Technology*



## The People Who Make it Happen

- **NanoDivision Committees**
  - Research
  - Production
  - Student
  - End-user
  - Awards
- **TAPPI Staff**
- **NCF Staff**
- **Dr. Hirata**

*Thank You ALL !!!*



## *2019 International Conference on Nanotechnology for Renewable Materials*

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### **Welcome: to our Keynote Speakers**



***Mr. Kazufumi Yamasaki***  
***Executive Vice President***  
*Nippon Paper Industries Co., Ltd.*



***Associate Professor***  
***Emily Cranston***  
*University of British Columbia*



***Dr. Heli Kangas***  
*Research Team Leader, Project Manager*  
*Biomass Processing and Products, VTT*  
*Technical Research Centre of Finland Ltd.*





## **Welcome: to our Keynote Speakers**



**Dr. Alan Rudie**  
*USDA Forest Service,  
Forest Products  
Laboratory*

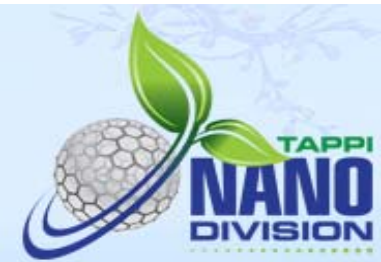


**Professor Yong Huang**  
*Technical Institute of Physics and  
Science, Chinese Academy of  
Sciences*



**Professor Akira Isogai**  
*University of Tokyo*





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### Welcome: to our VIPs

#### Thursday Lunch Sponsored Speakers:

##### 2020 TAPPI NANO Conference Co-chairs

- **Prof. Orlando Rojas**, Aalto University
- **Dr. Heli Kangas**, VTT Technical Research Centre of Finland Ltd.
- **Dr. Gilberto Siqueira**, EMPA

**“Renewable Nanomaterial  
Developments in the  
Boreal Forest Belt”**

#### End-User Panelists:

- **Mr. Kazuhito Jinno**, DKS Co., Ltd.
- **Dr. Junji Nemoto**, Hokuetsu Corporation
- **Mr. Hiroki Matsuo**, CEO, RBP Co.

#### TAPPI:

- **Larry N. Montague**, TAPPI President & CEO
- **Dr. Kim Nelson**, TAPPI Board of Directors
- **Dr. Richard Berry**, Past TAPPI Board Member
- **Past NanoDivision Award Recipients**
- **TAPPI Fellows**

## Slide 13

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**LS4**

Need name and full company name

Lisa Stephens, 5/7/2019



## NanoDivision: Recognizes Achievements

### Technical Award & FiberLean® Prize:

- Outstanding achievements in R&D
- Nanotechnology & Renewable Nanomaterials

**Dr. Alan Rudie**

*USDA Forest Service,  
Forest Products  
Laboratory*



### Leadership & Service Award:

**Dr. Jo Anne Shatkin,** *Vireo  
Advisors LLC*

### Mid-Career Award:

- < 20 yrs since PhD

**Dr. Julien Bras,** *Univ. Grenoble  
Alpes, CNRS, Grenoble INP Pagora*

**Dr. Liangbing Hu,** *University of  
Maryland*

### Student Award:

**Dr. Kevin De France**  
*McMaster University*

*Congratulations*



## Conference Highlights: And Some Thoughts...

### Co-Chairs



***Dr. Alan Rudie***  
*USDA Forest Service,  
Forest Products  
Laboratory*



***Professor Akira Isogai***  
*University of Tokyo*





## Thank You Sponsors

### Silver Sponsors



### Student Poster Session & Competition Sponsors



### Thursday Lunch Sponsors





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### **Exhibitors**

Aalto University  
Aikawa Iron Works Co., Ltd.  
Alberta-Pacific Forest Industries  
Inc.  
Asahi Kasei Corp.  
ATS Engineering Limited  
Borregaard Japan Branch  
CelluForce  
Chuetsu Pulp & Paper Co., Ltd.  
Daio Paper Corporation  
DKS Co. Ltd.  
FengSheng Group  
FiberLean® Technologies  
GLV USA Inc., - Part of Valmet  
GreenSense

GS Alliance Co., Ltd.  
Hitachi High-Tech  
Hokuetsu Corporation  
JFE Techno-Research Corporation  
Kao Corporation  
KRI, Inc.  
Masuko Sangyo Co., Ltd.  
MicrotracBEL Corp.  
Nippon Paper Industries Co., Ltd.  
North Century Cellulose Material Co., Ltd.  
Oji Holdings Corporation  
Performance Biofilaments  
Seiko PMC Corporation  
Shikoku Industry & Technology Promotion  
Center

Shimadzu Corporation  
Shin-Etsu Chemical Co., Ltd.  
Starlite Co., Ltd.  
Sugino Machine Limited  
Sumet Technologies Ltd. & Co., KG  
Technovel Corporation  
TECHPAP SAS  
The Japan Steel Works Ltd.  
Toagosei Co., Ltd.  
Toppan Printing Co., LTD.  
University of Maine  
VTT Technical Research Centre of  
Finland Ltd.



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### Thank You Media Partners





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## **Nanocellulose Forum Exhibition in TAPPI Nano**

**Tuesday:** 10:00 – 16:00  
**Wednesday:** 10:00 – 15:30  
**Location:** Convention Hall A







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### **Young Professionals Mixer**

**Today: 18:00 – 19:30**

**Location: Convention Hall A**

**Sponsored by:**





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### Tuesday Workshops

**SOLD OUT**

#### ***CNM Characterization Workshop: Primary Characterization***

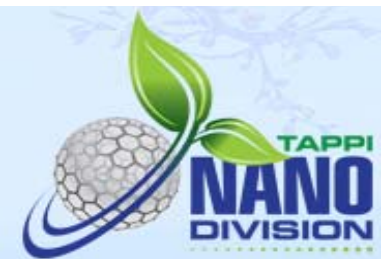
13:30 – 16:30

Room 202

#### ***Cellulose Nanomaterial Safety: Building a Bridge from Theory to Practice Workshop***

13:30 – 17:00

Room 203



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### **Poster Session: Student Poster Competition**

Sponsored by:



**Tuesday: 17:00 – 18:30**

**Location: Convention Hall B**

**Winner Announced: 18:30**

#### **How to Vote:**

- Conference app
- Paper Ballet at Student Booth

#### **What to Do:**

- Pick your top three
- No ranking





## Conference Dinner & Awards Ceremony!!

**Wednesday: 18:30 – 21:30**

**Location: Hotel the Manhattan**

**Tickets: Preregistration & Additional Fee Required**

**Sold Out**



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### **Lunch Keynote Speakers:**

**2020 Nano Conference Co-chairs**

*Orlando Rojas, Aalto University; Heli Kangas, VTT Technical Research  
Centre of Finland Ltd. and Gilberto Siqueira, EMPA*

**Thursday: 12:00 – 13:30**

**Location: Convention Hall A&B**

***“Renewable Nanomaterial Developments in the Boreal  
Forest Belt”***



## Student Spotlight:

**What:** Student Committee Tabletop  
**When:** During breaks  
**Location:** Lobby

*“Learn more about our student presenters and their presentations”*



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### **Traditional Japanese Paper Mill, Honda Plant, and Hodosan Shrine Tours**

**Friday: 8:00 – 19:00**

**Transportation picks up at: The parking area north  
of the Hotel the Manhattan**

**Tickets: Preregistration & Additional Fee  
Required**

**Sold Out**





## Nano App: All the Latest Updates

**1. Download:** TAPPI Onsite - from App Store

**2. Open:** TAPPI Onsite email to confirm registration

***No access?***

Find TAPPI Central to be directed on how to join

Username:

Password:





## **TAPPI Antitrust Policy**

Please remember that this and all sessions are to be held in strict compliance with the TAPPI Antitrust Policy.

Specifically, discussing prices or pricing policy and discussing any restraint on competition of any kind will not be tolerated.



REMINDER...



Please turn mobile phones and  
electronic devices OFF while attending  
sessions.

Thank you!



As a courtesy to all speakers and other attendees the use of photography or videography is not permitted during technical sessions. Presentations will be made available to all paid conference attendees post conference via our online portal.



## Slide 30

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**LS7**

I will insert a photo image for the no photography

Lisa Stephens, 5/26/2019