



PAN AMERICAN RESEARCH IN ADDITIVE GLOBAL MANUFACTURING CONFERENCE



PONTIFICIA
UNIVERSIDAD
CATÓLICA
DE CHILE



Organized by:
**ESCUELA DE INGENIERÍA, DISEÑO &
VICERRECTORÍA DE INVESTIGACIÓN**

SEPTEMBER 24 - 26 • SAN JOAQUÍN CAMPUS
Av. Vicuña Mackenna 4860, Santiago, Chile
DEADLINE FOR ABSTRACT SUBMISSION: AUGUST 31ST, 2019

In collaboration with:



UNIVERSIDAD TÉCNICA
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PARADIGMA (PAN AMERICAN RESEARCH IN ADDITIVE GLOBAL MANUFACTURING)

Additive Manufacturing, originally known as Rapid Prototyping and later 3D Printing, has spread worldwide and is today considered as one of the main drivers for the 4th Industrial Revolution across the globe. Within and inside the Americas, additive manufacturing will transform our economic growth, thus a new industrial paradigm is to be set, do not lose the opportunity of being part of this New World adventure, PARADIGMA 2019

La Manufactura Aditiva, conocida originalmente como Prototipado Rápido y luego Impresión 3D, se ha esparcido a través del mundo y es considerada hoy como una de las principales impulsoras de la 4ta revolución industrial. Entre y adentro de las Américas, la manufactura aditiva transformará nuestro crecimiento económico, imponiendo un nuevo paradigma industrial, así que no te pierdas la oportunidad de ser parte de esta aventura en el Nuevo Mundo, PARADIGMA 2019

PARADIGMA 2019

Organization Committee:

Jorge Ramos-Grez (School of Engineering PUC)

Fernando Auat-Cheein (Department of Electronic Engineering UTFSM)

Eric MacDonald (College of STEM YSU)

Oscar Huerta (School of Design PUC)

PARADIGMA
2019

CONFERENCE INFORMATION

Location

San Joaquín Campus in Macul, Santiago, Chile

Activities

- Informal meet-and greet on Monday 23rd evening at the Chairman's home
- Plenary session on Tuesday morning at the Luksic Auditorium at Campus San Joaquín
- 3 Technical sessions: Tuesday 24th afternoon and Wednesday 25th morning and afternoon at the Anacleto Angelini Innovation Center at Campus San Joaquín
- Networking tour & banquet on Tuesday 24th at a local vineyard
- Topics covered as per technical session:
 - Metals and Functional Materials for Additive Manufacturing in Offshore Applications
 - Automation, Design and Instrumentation for Additive Manufacturing Innovation
 - Ceramics, Composites & Polymers for AM in Structural Systems & Next Generation Batteries
- Workshop by Graduate Students and Industry Representatives on Thursday 26th morning at Campus San Joaquín

Abstract submission

E-mail a 500-word abstract with a 100-word biography to jramos@ing.puc.cl by August 31st, 2019. Acceptance results will be provided by September 3rd.

Registration:

Registration can be completed by emailing jramos@ing.puc.cl

Registration fee is \$240 USD for professionals and \$80 for students, banquet fee is \$80. Fee to attend each technical session separate \$100.- (amounts to be pay by credit/debit card through Transbank-CHILE Webpay platform)

Waivers will be offered on a case by case basis.

Recommended hotel:

Crowne Plaza Santiago Hotel

Av Libertador Bernardo O'Higgins 136, Santiago, Chile

Phone +56 2 26381042

Organizer:

Pontificia Universidad de Chile, Escuela de Ingeniería, Diseño & Vicerrectoría Académica

In collaboration with:

Universidad Técnica Federico Santa María & Youngstown State University

Supported by:

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Sponsored by:

Ing2030 The Clover, AC3E, DICTUC SA, LEiTAT, STRATASYS & WENCO

For Inquires:

Contact: Prof. Jorge Ramos-Grez

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CONFERENCE ACTIVITIES

MONDAY 23rd EVENING

Informal Meet and Greet event at the Chairman's home
19:00 - 21:30

TUESDAY 24th MORNING Plenary Session

At the Luksic Auditorium at San Joaquín Campus
8:00- 9:00 Registration and credentials
9:00-9:10 Jorge Ramos-Grez brief welcome words to PARADIGMA 2019
9:10-9:30 Speech from local authority
9:30-10:00 Ralph Resnick (America Makes, USA)
10:00-10:10 Q&A
10:10-10:40 David Bourell (University of Texas at Austin, USA)
10:40-10:50 Q&A
10:50-11:10 Short coffee break (Sponsored by Ingenieria 2030 The Clover)
11:10-11:40 Magí Galindo (LEiTAT, Spain)
11:40-11:50 Q&A
11:50-12:20 Mohsen Mohammadi (University of New Brunswick, Canada)
12:20-12:30 Q&A
12:30-12:40 Closure words and PARADIGMA technical sessions content description

TUESDAY 24th AFTERNOON Technical Session: Metal and Functional Materials for Additive Manufacturing in Offshore Applications

At the Innovation Center Principal Auditorium (Moderator Eric Macdonald)
2:00-2:30 Mohsen Mohammadi (School of Engineering UNB, Canada)
2:30-3:00 Jorge Ramos-Grez (School of Engineering PUC, Chile)
3:00-3:30 Mexico speaker (to be confirmed)
3:30-4:00 Coffee Break (Sponsored by Stratasys)
4:00-4:30 Mexico speaker (to be confirmed)
4:30-5:00 Sergio Ríos (School of Engineering U de Magallanes, Chile)
5:00-5:30 David Bourell (College of Engineering UT Austin, USA)
5:30-6:00 Julio Vergara (former chilean Navy Captain, PUC) Next steps & actions towards AM in Offshore Applications

TUESDAY 24th EVENING

18:30 Bus departure from San Joaquín Campus
19:30 Arrival at local vineyard
19:30-21:30 Tour and dinner at local vineyard (sponsored by Stratasys & Wenco). Bus returns to Crowne Plaza Hotel.

WEDNESDAY 25th MORNING Technical Session: Automation, Design and Instrumentation for Additive Manufacturing Innovation

At the Innovation Center Principal Auditorium (Moderator Ralph Resnick)
9:00-9:30 Eric MacDonald (College of STEM YSU, USA)
9:30-10:00 Juan Cristobal Zagal (School of Engineering UCH, Chile, to be confirmed)
10:00-10:30 Fernando Auat Cheein (Department of Electronic Engineering UTFSM, PI of the AC3E, Chile)
10:30-11:00 Coffee Break (Sponsored by Stratasys)
11:00-11:30 Magí Galindo (LEiAT Spain)
11:30-12:00 Mexico speaker (to be confirmed)
12:00-12:30 Oscar Huerta (School of Design PUC, Chile)
12:30-13:00 Miguel Torres (School of Engineering PUC, AC3E, Chile) Next steps & actions for Additive Manufacturing Innovation

WEDNESDAY 25th AFTERNOON Technical Session: Ceramics, Composites & Polymers in AM for Structural Systems & Next Gen Batteries

At the Innovation Center Auditorium (Moderator David Bourell)
2:00-2:30 Christopher Hansen (Mechanical Engineering UML, USA)
2:30-3:00 Paulo Sorello (School of Engineering, UNICAMP, Brasil)
3:00-3:30 Pedro Cortes (College of STEM YSU, USA)
3:30-4:00 Coffee Break (Sponsored by Wenco)
4:00-4:30 Donghai Wong (School of Engineering PSU, USA to be confirmed)
4:30-5:00 European/Asian lithium battery expert speaker (to be confirmed)
5:00-5:30 European/Asian lithium battery expert speaker (to be confirmed)
5:30-6:00 Patricio Romero (School of Engineering PUC, Chile) Next steps & action towards AM for Energy Storage & Structural Systems

THURSDAY 26th MORNING Workshop by Graduate Students & Industry Representatives

At the Luis Crisosto room (Moderator Jorge Ramos-Grez)
8:30-10:00 Graduate students (Brasil, Mexico, Chile & other latam countries) 10 minutes presentations
10:00-10:30 Coffee Break (Sponsored by Ing2030 The Clover)
10:30-11:30 Experts meet Graduates
11:30-12:00 Industry speaker (to be confirmed) Future manufacturing R&D Opportunities in Chile
12:00-12:30 Industry speaker (to be confirmed) Future Lithium R&D Opportunities
12:30-13:00 CORFO authority (to be confirmed) What are the next steps?
13:00-14:00 Grab your lunch bag & networking (Sponsored by Ing2030 The Clover)