



# FIRPA 20th Anniversary Conference

## April 18 – 19, 2018, Espoo, Finland

Under the umbrella of Aalto 3D days the conference consists of Medical and Industrial focus area days and offers presentations from worlds' leading experts on both areas.

On top of the conference presentations there will be expert workshops and additional activities like NORDIC3DEXPO, annual 3D Printing exhibition.

The venue is Dipoli Conference Center in Otaniemi, Otakaari 24, Espoo, Finland.

The keynote speaker in the event is well-known Terry Wohlers from Wohlers Associates.

### More information and enrollment:

<http://firpa.fi/html/firpa20.html> | [www.3dexpo.fi](http://www.3dexpo.fi)

### Program Committee

- Professor Ian Gibson, Deakin University
- Professor Antti Mäkitie, University of Helsinki and Helsinki University Hospital
- Professor Jouni Partanen, Aalto University
- Professor Antti Salminen, Lappeenranta University of Technology

### Organizing Committee

- Mr. Jukka Tuomi, Aalto University and Finnish Rapid Prototyping Association FIRPA, Chair
- Mr. Roy Björkstrand, Aalto and FIRPA, Co-Chair
- Ms. Kirsi Kukko, Aalto and FIRPA, Secretary General



# **Firpa 20<sup>th</sup> Anniversary Conference: April 18th, 2018**

## **Additive Manufacturing in Clinical Settings**

- 9:00 **Registration, coffee and tea**
- 9:30 Opening of the Conference  
**Prof. Antti Mäkitie** (chair), Univ. of Helsinki, Finland and **Professor Ian Gibson** Univ. of Deakin, Australia (via Skype connection)
- 10:00 **Prof. Jukka Seppälä**, Aalto Univ., Finland  
*3D Printed biopolymer scaffolds for tissue regeneration and nerve guiding*
- 10:30 **Dr Christian Fang**, Univ. of Hong Kong  
*Applications of 3D Printing technology in orthopaedics - the Hong Kong perspective and overview of 5-year experience*
- 11:00 **Break**
- 11:30 **Dr. Aditya Mohan Alwala**, MNR Dental College & Hospital, India  
*Renovation of the innovation*
- 12:00 **Dr. Chitra Chakravarthy**, Spark Centre for Advanced Dentistry, India  
*The third dimension of the maxillofacial surgeon applications of additive manufacturing*
- 12:30 **Lunch break and visit to NORDIC3DEXPO**
- 14:00 **Dr. Abby M. Paterson**, Loughborough Univ., UK  
*Specialised software to support 3D Printing of wrist splints*
- 14:30 **Assoc. Prof. Risto Kontio**, Helsinki Univ. Hospital, Finland  
*Management of Orbito-Zygomatic Deformity, Digital planning approach*
- 14:50 **Coffee break**
- 15:20 **Dr. Ante Pettersson**, Univ. of Helsinki, Finland  
*Clinical use of Additive Manufacturing / 3D printing in Finland in 2016-2017*
- 15:40 **Prof. Igor Drstvensek**, Univ. of Maribor, Slovenia  
*Business models and opportunities in medical 3D printing*
- 16:10 **Assoc. Prof. Niko Moritz**, Univ of Turku, Finland  
*Biomechanical evaluation of load-bearing fiber-reinforced composite plates intended for the treatment of long bone fractures*
- 16:30 **Prof. Jari Pallari**, Podfo Ltd and Newcastle Univ., UK  
*3D printing bespoke orthotic devices - from makers to mass production*
- 16:50 Panel discussion and future networking activities  
Chairs: Prof. Ian Gibson and Prof. Antti Mäkitie
- 18:00 **Cocktails**

# Firpa 20<sup>th</sup> Anniversary Conference: April 19th, 2018

## Additive Manufacturing in Industries

- 8:30 **Registration, coffee and tea**
- 9:00 Opening of the Conference  
**Prof. Jouni Partanen** (chair)
- 9:15 **Keynote presentation:**  
**Terry Wohlers**, Wohlers Associates, USA  
*Trends and the Future of 3D Printing*
- 10:00 **Ismo Mäkelä**, DeskArtes Oy, Finland  
*Software Modules in Additive Manufacturing Processes*
- 10:30 **Break**
- 11:00 **Jonas Eriksson**, Siemens Industrial Turbomachinery, Sweden  
*How to introduce and gain deep manufacturing benefit with AM*
- 11:30 **Jyrki Saarinen**, Univ. of Joensuu, Finland  
*3D Printed Optics*
- 12:00 **Lunch break and visit to NORDIC3DEXPO**
- 13:30 **Theresia von Arnold**, HP, Spain  
*HP Voxel – How it will change the way we design, make and produce!*
- 14:00 **Mikhail Zhmaylo**, Peter the Great St. Petersburg Polytechnic Univ. and **Anton Aleksashkin**, CompMechLab LLC, Russia  
*Optimization-driven lightweight design for best-in-class parts made by additive manufacturing. Engineering technologies and software transfer for optimization and 3D printing*
- 14:30 **Break**
- 15:00 **Joshua Pearce**, Michigan Technological University, USA  
*Production for the People: How open source hardware design and 3D printing enable real distributed manufacturing*
- 15:30 **Cory Haas**, Desktop Metal, USA  
*Desktop Metal – Office-friendly metal 3D printing*
- 16:00 **Closing of the conference**



## Venue

**Dipoli Conference Center in Otaniemi, Otakaari 24, Espoo, Finland.** The architecture style of newly renovated venue is expressionist modern and features building materials from Finnish nature like blocks of rock. Location at Aalto University campus 15 minutes from Helsinki City Centre and 30 minutes from the airport offers many possibilities for travelers.

<http://facilityrental.aalto.fi/en/dipoli/>

The venue on the map <https://goo.gl/maps/641PrM8uL4E2>

## Hotels

There are several fine locations for the accommodations. You can stay in Helsinki ([www.myhelsinki.fi/en](http://www.myhelsinki.fi/en)) City, there's a direct subway line from Helsinki to Otaniemi. Or you can stay closer to the University in Tapiola "Garden Town", only 5 minutes subway or you can even find a hotel beside the venue.

If you wish to experience the Finnish nature you can choose a hotel a bit far from the venue, +30min taxi, but very close to Nuuksio nature park. (NORDIC3DEXPO has negotiated a 20% discount for visitors, use code MESSUT18 and email [myynti@hotellinuuksio.fi](mailto:myynti@hotellinuuksio.fi)).

Hotel suggestions:

Radisson blue in Otaniemi ([https://www.radissonblu.com/en/hotel-espoo?facilitatorId=CSOSEO&csref=org\\_gmb\\_sk\\_en\\_sn\\_ho\\_HELZS](https://www.radissonblu.com/en/hotel-espoo?facilitatorId=CSOSEO&csref=org_gmb_sk_en_sn_ho_HELZS))

Sokos hotel in Tapiola, 5min subway to Otaniemi.  
(<https://www.sokoshotels.fi/en/espoo/sokos-hotel-tapiola-garden>)

Hotel Nuuksio in northern Espoo, Exhibition discount, near Nuuksio nature park (<https://www.hotellinuuksio.fi/en>)

Hotels in Helsinki City - several, see travel search sites. (15min subway to Otaniemi). We recommend Hotel Vaakuna, it is next to main railway station and subway station





## **Fees (including coffee/tea, meals and exhibition)**

### Delegate fees

One day 220 € (FIRPA members 190 €)

Two days 390 € (FIRPA members 330 €)

### Speakers of the conference

Free

## **Partners**

Aalto University, [www.aalto.fi](http://www.aalto.fi)

NORDIC3DEXPO, [www.3dexpo.fi](http://www.3dexpo.fi)

## **Event main Sponsors**

KONE

UPM

## **Contact**

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Tel. + 358 50 344 72 48

## **Registration**

[firpa.fi/html/firpa20.html](http://firpa.fi/html/firpa20.html)





## Other useful information

- **Taxis**

- Taksi-Helsinki tel. +358 (0)100 0700 (1,15€/call +0,08€/10 seconds + local call charge)
- Lähitaksi tel. +358 (0)100 7300 (0,984€/call+0,082€ /10 seconds +local call charge)

- **Transportation**

If you wish to use public transportation, this link will be very useful:  
<https://www.hsl.fi/en>.

- **Emergency telephone numbers**

- General emergencies 112
- Police 112
- Ambulance and fire 112

- **Currency**

- All official conference prices are indicated in Euro (€), which is also the official currency in Finland. All major credit cards are accepted in most hotels, restaurants and shops.

- **ATMs**

- You can withdraw cash using your credit or bankcard at ATMs marked "Otto". The following cards are accepted: VISA, VISAplus, VISAelectron, Eurocard, Mastercard, Cirrus and Eurocheque.

- **Language**

- The mother tongue of nearly ninety per cent of the city's inhabitants is Finnish. Some seven per cent are native speakers of the country's other official language, Swedish. A high percentage of the population speak excellent English as their second language.

- **Phones**

- In a country of mobile phones it is difficult today to find phone booths. Hotels and hostels have usually public phones that can be used with phone cards. Finland country code from calls abroad is +358 and Helsinki area code from calls abroad: 9 (09 in Finland).

