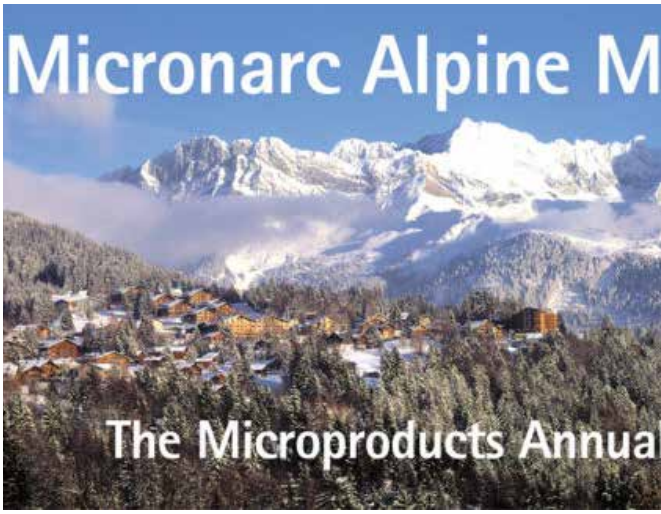
mAm 2019 - 10e édition



Surfant sur le succès des 9 premières éditions, le Micronarc Alpine Meeting continuera à se concentrer sur les équipements et les procédés et technologies innovants pour la fabrication de microproduits.

Ces deux jours de conférences sont une excellente occasion de stimuler des discussions et un réseautage de qualité dans l'atmosphère décontractée de Villars, charmant village et station de ski situé à 1250 mètres d'altitude. Le programme proposera un panel de conférenciers et de présentations. Une petite exposition « sur table » sera organisée en parallèle pour ceux qui souhaitent promouvoir leur entreprise et leurs produits.

Les conférences auront lieu un lundi et un mardi, permettant ainsi aux participants qui souhaitent arriver tôt de profiter de la proximité des remontées mécaniques ou simplement de se détendre pendant quelques jours dans un cadre alpin décontracté. Un dîner-conférence le lundi soir à 1800 mètres d'altitude ajoutera une touche de charme local.

Comme d'habitude, un nombre limité de participants pourront assister à l'événement. Ne le manquez pas !

Les microsystèmes sont maintenant entrés dans l'ère de la production à grande échelle pour les applications grand public, en particulier les téléphones mobiles, les TIC et les dispositifs médicaux jetables. Les questions liées à la production de ces produits continuent d'intéresser les fabricants. Il s'agit notamment de l'outillage pour la fabrication en grande série de pièces de précision, de la fabrication de lignes d'assemblage automatisées hautement efficaces et fiables et de systèmes de test pour microproduits. Il existe un marché à croissance rapide pour ces composants et produits.

Sunday 10 February 2019

18:00 Registration open. Welcome drink.

Monday 11 February 2019

09:00 - 09:30 Welcome

- Danick Bionda • Secretary General, Micronarc
- Prof. Dr. Volker Saile, Karlsruhe Institute of Technology
- David Kappeler, Office for Economic Affairs, Canton of Vaud

09:30 - 10:15 Invited Keynote on the Future of Micro-manufacturing I

- Mario El Khoury, CEO, CSEM SA (Switzerland) *The Swissness of Industry4.0*

10:15 - 10:45 Coffee & Exhibition Visit

10:45 - 12:00 Micro-manufacturing Applications I – Watchmaking

- Guy Semon / Jason Lund, Tag Heuer Institute (Switzerland). *Title to be confirmed.*
- Sébastien Brun, SY&SE (Switzerland). *Title to be confirmed.*
- Dr. Mohamed Zanaty, Postdoctoral Scientist, INSTANT-LAB, Ecole Polytechnique Fédérale de Lausanne (EPFL) (Switzerland). *Programmable Multistable Mechanisms for Watchmaking Applications.*

12:00 - 13:30 Lunch in the hotel

13:30 - 15:00 Micro-manufacturing Applications II – Medtech

- Prof. Dr. André Bernard, Institut für Mikro- und Nanotechnologie MNT, NTB Buchs (Switzerland) *Microfluidic device to model microvascular obstructions in heart attack patients.*
- Dr. Andreas Hogg • CEO, Coat-X AG (Switzerland). *Protecting high value-added components against moisture penetration and corrosion.*
- Prof. Dr. Alexander Nesterov-Mueller, Institute of Microstructure Technology, Karlsruhe Institute of Technology (Germany). *Stochastic peptide arrays: from information to knowledge.*

15:00 - 15:30 Coffee & Exhibition Visit

15:30 - 17:00 Sensors

- Benedetto Vigna, President, Analog, MEMS and Sensors Group, ST Microelectronics (Switzerland/ Italy).*Title to be confirmed.*
- Dr. Jean-François Le Néal • TE Connectivity, Sensors Solutions, Engineering Manager (USA, Switzerland). *MEMS Pressure Sensors : Technology and Applications.*
- Dr. Stefan Leidich, Corporate Sector Research and Advance Engineering, Microsystem and Nanotechnology, Robert Bosch GmbH (Germany). *New Technologies and Novel Concepts for Microsensors.*
- Reinhard Völkel, CEO, Süss MicroOptics (Switzerland). *Wafer-Level Optics (WLO) for*

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Microsystems have now entered the age of high volume production for consumer applications, especially mobile phones, ICT and medical disposable devices. The issues associated with the production of these are of continued interest to manufacturers. These include tooling in high volume fabrication of precision parts, making highly efficient and reliable automated assembly lines and test systems for microproducts. There is a fast growing market for such components and products.

Following in the success of the first 9 editions, The Micronarc Alpine Meeting will continue its focus on equipment and innovative processes and technologies for manufacturing microproducts.

This 2 day conference is a proven venue for stimulating quality networking and discussions in the casual atmosphere of Villars, a charming village and ski resort located at 1250 meters of altitude. A selection of invited speakers and presentations will comprise the program. A small, table-top exhibition will be conducted in parallel for those wishing to promote their company and products.

The conference will take place on a Monday and Tuesday, thus permitting participants that wish to arrive early to take advantage of the proximity to the ski lifts or simply relax for a couple of days in a laid-back alpine setting. A conference dinner on Monday evening at 1800 meters of altitude will add a touch of local charm.

As usual, a limited number of participants will be able to attend the event. Don't miss it!

Medical, Fiber Communication, Automotive Lighting and Optical Sensor Applications

17:00 Adjourn for the day
19:00 Conference Dinner ~ Meet in hotel lobby
19:30 Departure of private train to Restaurant du Col de Bretaye
20:00 Aperitif, with presentation by Dr. Yves Emery, CEO, Lyncée Tec. *All that is impossible to do remains to be done*
20:30 Swiss Traditional Meal
23:00 Departure of Train for Villars, arrival at hotel at approximately 23:30.

Tuesday 12 February 2019

09:00 - 09:45 Invited Keynote on the Future of Micro-manufacturing II

- Prof. Dr. Ulrike Wallrabe, University of Freiburg, Department of Microsystems Engineering – IMTEK, Laboratory for Microactuators (Germany). *Adaptive optical elements with non-trivial shapes.*

09:45 - 10:30 Coffee & Exhibition Visit
10:30 - 12:00 Novel Manufacturing I

- Prof. Dr.-Ing. Peter Woias, Albert-Ludwig-University Freiburg, Laboratory for Design of Microsystems (Germany). *PDMS-based microsensors and microactuators: Precise microstructuring of a "wobbly" material.*
- Dr. Marcus Lau, TRUMPF Laser- und Systemtechnik GmbH (Germany). *Laser-induced particle processing in a free liquid jet*
- Jörg Pierer, CSEM SA (Switzerland). *Real-time 3D MEMS inspection using light field camera.*

12:00 - 13:30 Lunch in the hotel
13:30 - 15:00 Novel Manufacturing II

- Prof. Dr. Jan Korvink, Institute of Microstructure Technology, Karlsruhe Institute of Technology (Germany). *Recent results with Carbon MEMS - the next Silicon?*
- Dr. Klaus Weishaupt, Nanopta GmbH and Max-Planck-Institute for Medical Research (Germany). *nanoAR: antireflective, bio-inspired nanostructures – learning from nature.*
- Dr.-Ing. Tim Böltken, INERATEC GmbH (Germany).*Title to be confirmed*

15:00 - 15:30 Coffee & Exhibition Visit
15:30 - 16:15 Invited Keynote on the Future of Micro-manufacturing III

- Prof. Dr. Hendrik Hölscher, Institute of Microstructure Technology (IMT), Kalsruhe Institute of Technology (KIT) (Germany). *Bio-inspired nano- and microstructured surfaces: from analysis to fabrication and applications*

16:15 - 16:30 Final Remarks

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