



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences



Welcome

Peter Brunner, Research, BFH Engineering and Information Technology

11/15/2017

Study programs

7 Bachelor and 2 Master programs

Mechanical Engineering



Electrical & Communication Tech



Computer Science



Micro and Medical Technology



Automotive Engineering



Medical Informatics



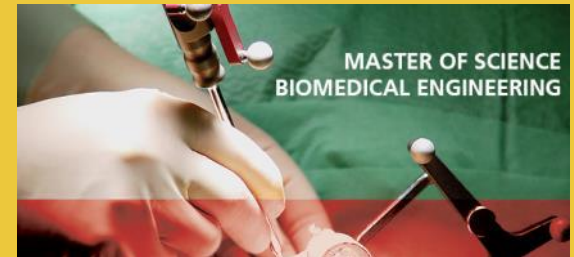
Industrial Engineering



MSc Engineering



MSc Biomedical Engineering



→ Autumn 2017

Applied Research & Development Institutes

Applied Laser, Photonics, Surface Technology



Intelligent Industrial Systems



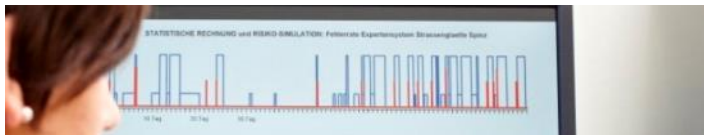
Printing Technology



Energy and Mobility



Risks and Extremes



ICT-Based Management



Security in the Information Society



Human Centered Engineering



Rehabilitation & Performance Technology



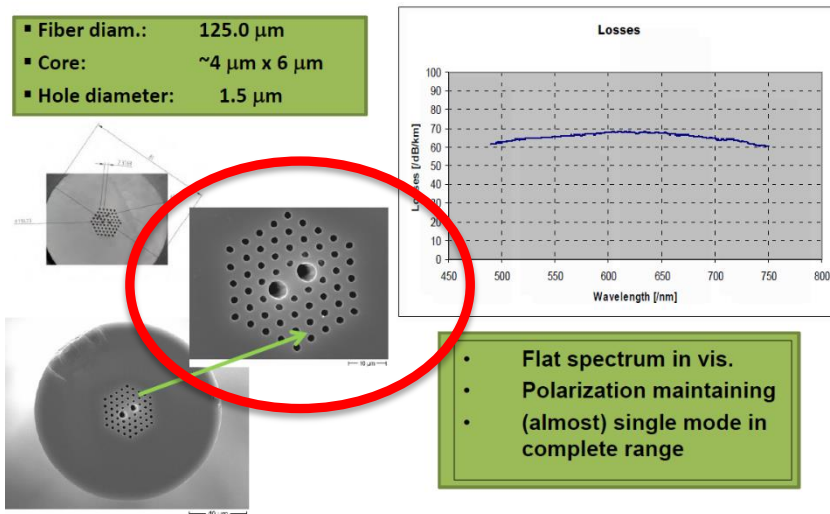
Medical Informatics



How do the holes get into the fibres ?

Holes

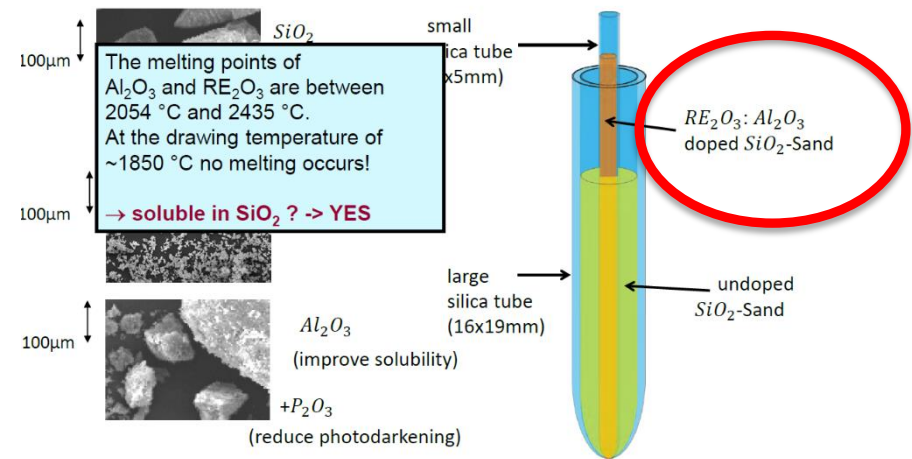
2.4 Example: Fibers: Polarization maintaining PCF



Dopants

2.2 Alternative Approach: Granulated silica method

• proof of principle

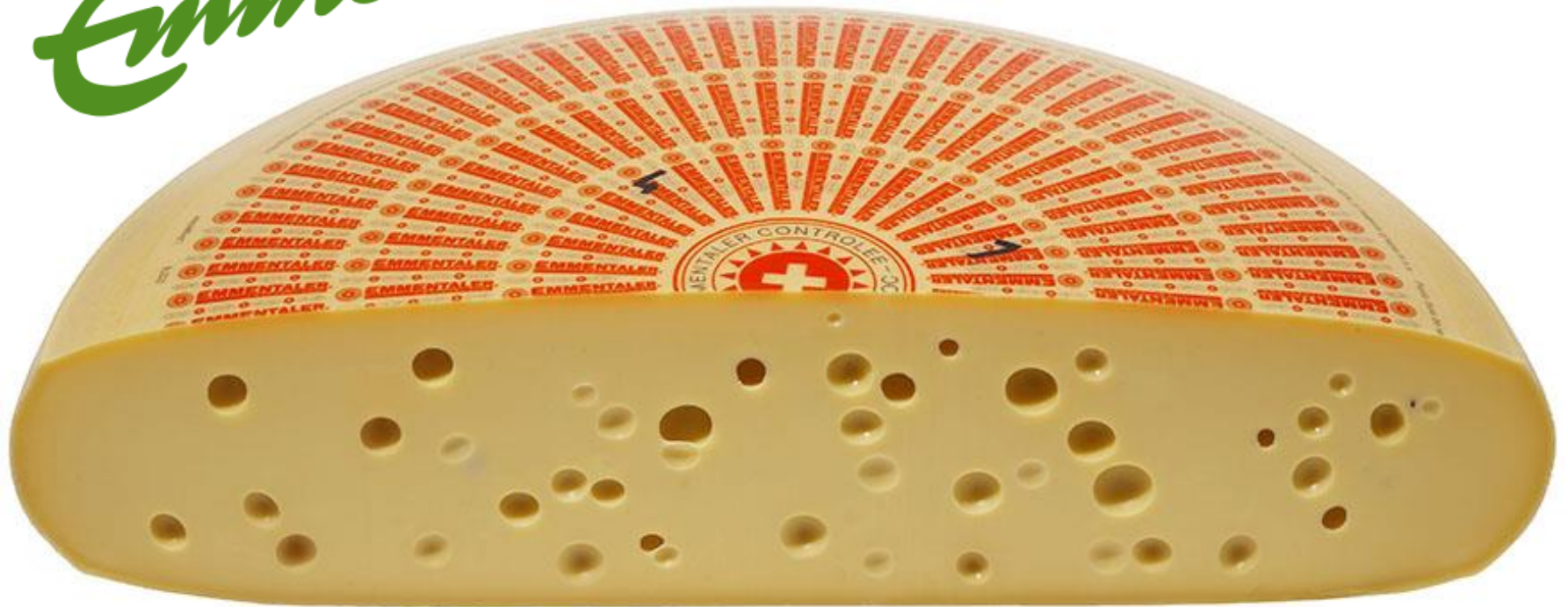


R. Renner-Erny, L. Di Labio, and W. Lüthy, "A novel technique for active fibre production," *Optical Materials*, vol. 29, no. 8, pp. 919–922, Apr. 2007.

Source: Valerio Romano, 2015, Workshop: Challenges for Swiss Amplifier and Delivery Fibers

How do the holes get into the cheese ?

Emmentaler



How do the holes get into the cheese ?





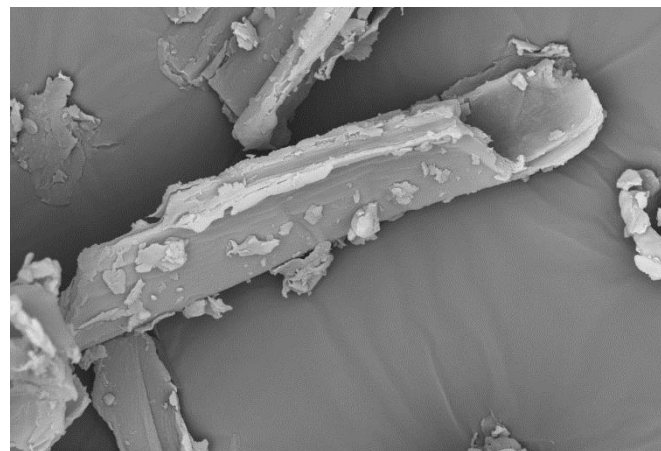
International Dairy Journal

Volume 47, August 2015, Pages 118-127



Mechanism and control of the eye formation in cheese

Dominik Guggisberg ^a  , Philipp Schuetz ^{b, c}, Hans Winkler ^a, Rudolf Amrein ^a, Ernst Jakob ^a, Marie-Therese Fröhlich-Wyder ^a, Stefan Irmeler ^a, Walter Bisig ^a, Iwan Jerjen ^b, Mathieu Plamondon ^b, Jürgen Hofmann ^b, Alexander Flisch ^b, Daniel Wechsler ^a



«Dopants»: Hay particles

Welcome to Burgdorf

