

# From Swisslaser to Swissphotonics

Dr. Christoph Harder

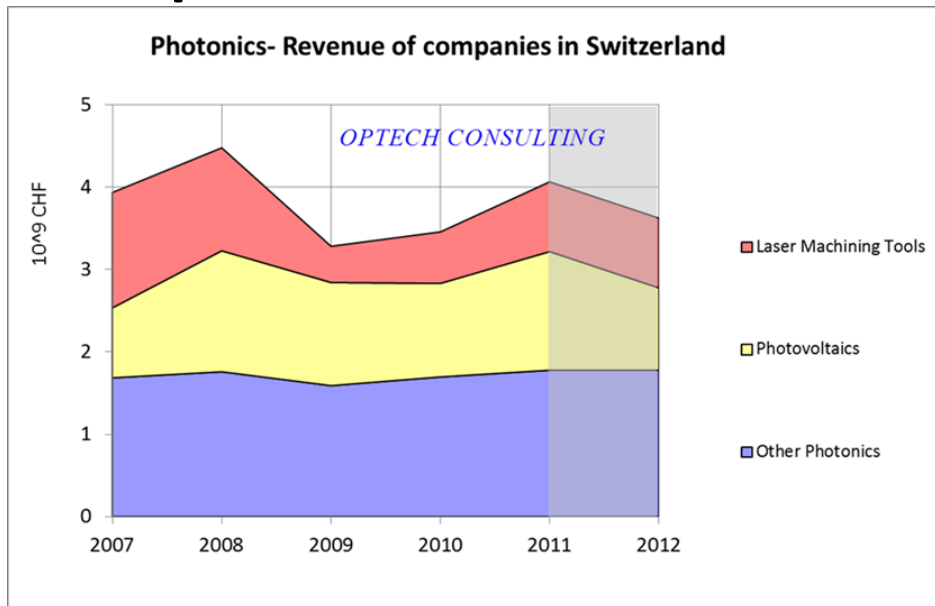
«Verein Schweizer Laser und Photonik Netz»

Sihleggstrasse 23, CH8832 Wollerau

[harder@swisslaser.net](mailto:harder@swisslaser.net), [www.swisslaser.net](http://www.swisslaser.net), +41 79 219 9051

November 22, 2012

# Swissphotonics



- Industry:
  - 4 BCHF/year, 15'000 people (150 companies tracked)
  - No 2 in revenue/capita in Laser Machining Tools
- Vision:
  - **Equal opportunity for innovation (gleichlange Spiesse)** for Swiss SMEs in international competition
    - Advocacy for and support of innovation in SMEs and industry

# Members

Paying Members: 74

Industry: 47

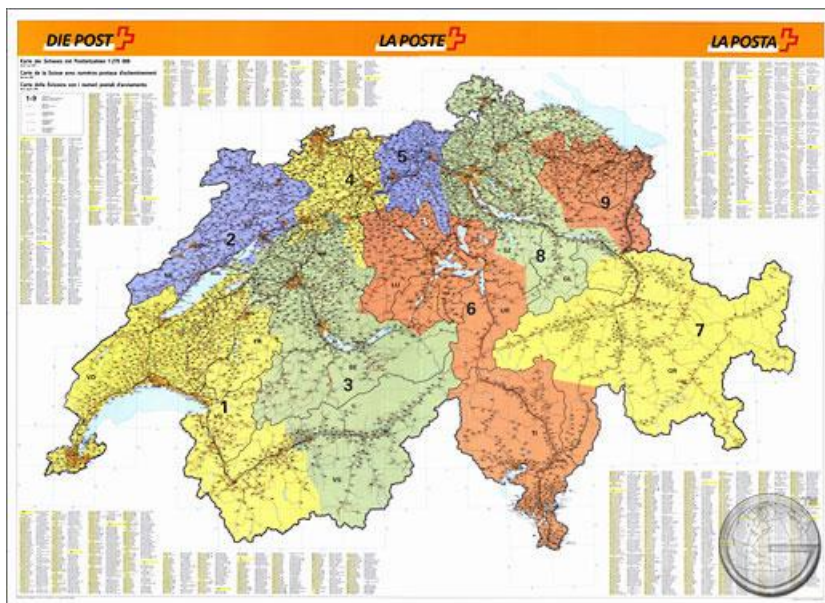
University: 19

Friends: 1600

PLZ	Members
1	11
2	7
3	7
4	4
5	3
6	4
7	1
8	29
9	6

Firmenname
Alpes Laser SA
BCI Group
BR TEC Bühler AG
Bystronic Laser AG
Dyneos AG
EMA GmbH
Exalos AG
Fisba Optik AG
Barcos solutions
GB Microfab SA
GMP SA
Gratec Produkte GmbH
High Q laser Innovation GmbH
II-VI Suisse Sàrl
inspire AG
Lasag AG
Leister Technologies AG
Daetwyler Graphics AG
Medistellar GmbH
Oclaro
onefive GmbH
Precitec Vision GmbH
Geheim
Soutec AG
Sulzer Markets and Technology AG
SUSS Micro-Optics SA
SVS
Swiss Tec Technology AG
Synova SA
Time Bandwidth Products AG
Trumpf Laser Marking Systems AG
Trumpf Maschinen AG
GF AgieCharmilles
Silitec Fibers SA
vario-optics ag
MESA Imaging
Hamamatsu Photonics
Solneva SA
Sefar AG
IBM Research GmbH
Reichle & De-Massari
Winterthur Instruments GmbH
Optotune AG
Franke Industrie AG
Rainbow Photonics
Volpi AG
ABB Switzerland - Corporate Research

Research
Berner Fachhochschule Technik und Informatik
CSEM Alpnach
EMPA Dübendorf
EPFL STI IGM LGPP
EPFL STI LOA
EPFL SB IPEQ LPN
ETHZ
FHNW
HESSO - ARC
NCCR Quantum Photonics
NTB Innerstaatliche Hochschule für Technik, Buchs
optETH
PSI
Universität Bern
Institut für angewandte Physik
Université de Genève
zhaw
EPFL OPT
Swiss Society of Optics and Microscopy SSOM
Individuals
Harder
Schulz-Hennig
Filipp
Böhlen
Müller
Witte
Assauer
Kielkowski



# Swissphotonics Boards

- Executive board (Industry: 4, Research Institute: 3, University: 4)
  - Dr. Christoph Harder: HPP, Schindellegi (President)
  - Dr. Christian Bosshard: CSEM, Alpnach (Vice President)
  - Prof. Dr. Valerio Romano: UAS Burgdorf (BFH) (Mngng director)
  - Dr. Gabriel Dumitru: Blösch Group, Grenchen
  - Prof. Dr. Andreas Ettemeyer, UAS Buchs (NTB)
  - Dr. Lukas Krainer: OneFive, Zürich
  - Beat Lüscher: UAS Windisch (FHNW)
  - Prof. Dr. Frank Nüesch: EMPA, Dübendorf
  - Prof. Dr. Christophe Moser: EPFL Lausanne
  - Josef Stirnimann: Inspire, Zürich
  - Dr. Kurt Weingarten: Time Bandwidth Products, Zürich
- Advisory board (Industry: 3, Research Institute: 1, University: 1)
  - Dr. Bernd Braunecker, Dr. Stefan Nowak, Urs Singer, Christian Wasserfallen, Prof. Dr. Konrad Wegener, Dr. Carsten Ziolek

# Swisslaser in 2013

## 1. Networking

- Organize 6 workshops (network universities and industries)

## 2. National Laboratories

- Establish 5 national laboratories as centers of competence
- SNAPP (Swiss National Application laboratory for Photonic tools and Photonic manufacturing): Inspire, EMPA, ALPS, FHNW,

## 3. Start-ups

- Support spin-offs together with CTI start-up

## 4. Equal Opportunity

- Advocacy and support of Photonics innovation in CH
- Support [info@swisslaser.net](mailto:info@swisslaser.net) [www.swisslaser.net](http://www.swisslaser.net)

## 5. Strategic Technology Outlook

- Roadmap to guide SME R&D



# Innovation Support by Swissphotonics

- **Workshops:**

- Talks from industry (technology required by market) and research (technologies under development) (6/year)
  - Match partners (industry/university)
  - Involve WTTs/Innovationmentors
- Peer to peer open forum
  - For Professors, CTO's, Project-leader, Professionals

- **Individual support**

- Website, e-mail and phone (know-how, experts)
- [info@swisslaser.net](mailto:info@swisslaser.net)
- [www.swisslaser.net](http://www.swisslaser.net)

- **Input and steering provided by**

- **General assembly, Executive board** (bi-monthly cc), **Beirat** (individual input)

# International Network

- **Member: Photonics21**
  - European technology platform for Photonics
- **Partner: Innopho21:**
  - All national photonic networks in Europe are partners
  - Prepare European photonic program for Horizon 2020
- **Member: IOA**
  - Yearly meeting of national photonic networks (USA, Japan, China, Korea, Germany, Europe, Canada, Scotland) to exchange market data reports
- **Member: Various**
  - OIDA(USA), EPIC(EU) and networked into EOS, OSA, etc.