

Swisslaser (SLN)

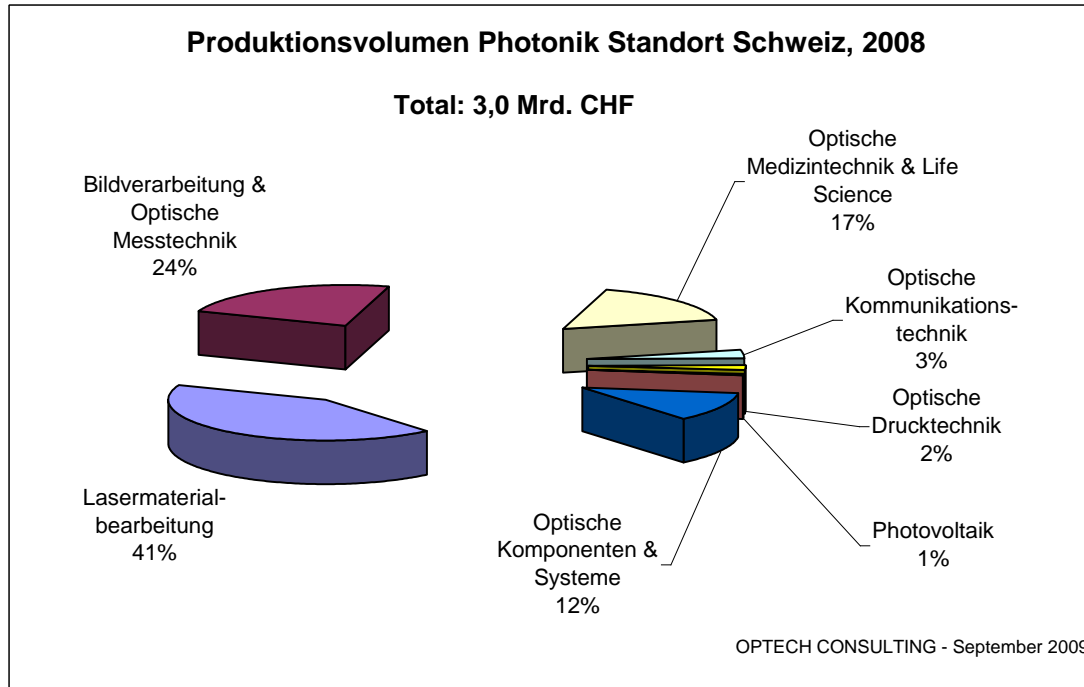
Christoph Harder, President

www.Swisslaser.Net

October 28, 2010



Swiss Photonics Industry



- 3'000 Mio/year revenue
 - Number 2 in Europe photonic revenue/capita
- Photonics industry in Switzerland is dominated by material processing and input/output (Bildverarbeitung, Life science, optische Komponenten) technologies

Swiss photonic market overview

Market	Laser Processing	Input/Output	Optical Comm.	Photovoltaic	Lighting
	43%	53%	3%	1%	na
Submarket	Laser Processing	Optical Measuring	Optical Communication	PV material	Lighting Material
	Laser Printing	Optical Components	Optical Interconnects	PV Processing	Luminaires
	Laser Surgery	Optical Life Science			
Industry	Bystronic	Balzers	Enablence	3 S Swiss Solar	BASF
	Dätwyler	Baumer	Beam Express	Flexcell	Epispeed
	Lasag	Cedes	Bookham	Flisom	Huntsman
	Leister	Fisba Optik	Diamond SA	Fluxim	Novagan
	Lüscher	Haag-Streit	Huber&Suhner	Huntsmann	Oerlikon
	Oclaro	Leica Geosystems	Xenlux	Meyer- Burger	Zumtobel
	Oerlikon	Leica Microsystems	+10 (see industry rep.)	Oerlikon	
	One-Five	Roche-Diagnostics		Pramac	
	Silitec	Schott Guinchard		Solaronix	
	Soudronic	SwissOptic		Solterra	
	Synova	Swissray		Sputnik Engineering	
	Time-Bandwidth	Tecan		Studer Innotec	
	Trumpf	Vectronix		Swiss Wafers	
		+50 (industry rep.)		VHF Technologies	
Research Org	CSEM	CSEM	CSEM	CSEM	CSEM
	EMPA Thun	EPFL	EPFL	EMPA Dübendorf	EMPA Dübendorf
	EPFL	ETH	ETH	EPFL	EPFL
	ETH/Inspire	UAS Biel	IBM	ETH	ETH
	UASs Burgd., Windisch	UAS Buchs	UniGe		
	UniBe				

Swisslaser = Swissphotonics

- The Swiss Photonics Innovation Network
 - **Includes the Photonics industries**, laser beam machining tools, optical interconnects and photovoltaics
 - **Covers Switzerland** and is internationally networked
 - Supports technology transfer from **Swiss national science foundation to CTI and the european technology platform “Photonics 21”**
 - Is the **Swiss Photonics Technology Platform**
- Swisslaser
 - Has more than 70 members (institutes and companies)
 - Hands out seed money (5000.-) to support submissions of CTI projects
 - Is member of international photonics networks (EPIC, IOA, OIDA, OSA) and supports finding international funding.
 - Organizes workshops in order to bring the optimal partners of industry and academia together for technology transfer
 - Funding of CTI Swisslaser network projects has been 6 Mio/year

www.swisslaser.net,
www.swissphotonics.net



- HOME
- INFO FOR COMPANIES
- INFO FOR INSTITUTES
- WORKSHOPS
- [UPCOMING](#)
- [PAST](#)
- SWISS PHOTONICS
- PHOTONICS21
- SNAPP
- SNSF PHOTONICS
- LASERFEST
- ECOC 2011
- DOWNLOADS
- LINKS

Upcoming events

- Do, 28.10.2010 [Optical Interconnects](#), IBM Research - Zurich, Ruschlikon
- Mi, 03.11.2010 [Biomedical Photonics](#), University Bern
- Do, 04.11.2010 [inspire Laserkolloqium](#), ETH Zentrum
- Do, 11.11.2010 [Photonics as a Key Enabling Technology](#), CSEM SA, Neuchatel
- Do, 02.12.2010 [3D Measuring \(SLN\) & 50 Jahre Laser \(SSOM\)](#), NTB Innerstaatliche Hochschule für Technik Buchs



Agenda

- 28.10.2010: IBM Research - Zurich, Ruschlikon [Optical Interconnects](#)
- 03.11.2010: University Bern [Biomedical Photonics](#)
- 04.11.2010: ETH Zentrum [inspire Laserkolloqium](#)
- 11.11.2010: CSEM SA, Neuchatel [Photonics as a Key Enabling Technology](#)

News:

[50th Birthday of the Laser](#)

Supported by:



13:30-13:40	Dr. habil. Walter Riess: Welcome
13:40-13:45	Dr. Christoph Harder: Introduction
13:45-14:10	Dr. Karlheinz Gulden: VCSELS
14:10-14:30	Tobias Lamprecht: Electro-optical circuit boards
14:30-14:50	Dr. Jörg Wieland: Trends in Optical Interconnects: Size, Power, Cost
14:50-15:10	Dr. Roger Krähenbühl: Connectivity Solutions for Fiber Optics
15:10-15:30	Dr. Markus Rossi: Lenses for optical interconnects
15:30-16:00	Networking Break
16:00-16:25	Dr. Bert Jan Offrein: Optical interconnects at IBM
16:25-16:45	Prof. Dr. Ursula Keller: Noval ultrafast gigahertz high-power semiconductor lasers: MIXSELS and SESAM modelocked VECSELS
16:45-17:05	Prof. Dr. Heinz Jäckel: Evolving Gigabit to Terabit/s Interconnects - a device point of view
17:05-18:00	Interconnect Workshop
18:00-19:30	Apéro Riche