

Swisslaser Swissphotonics

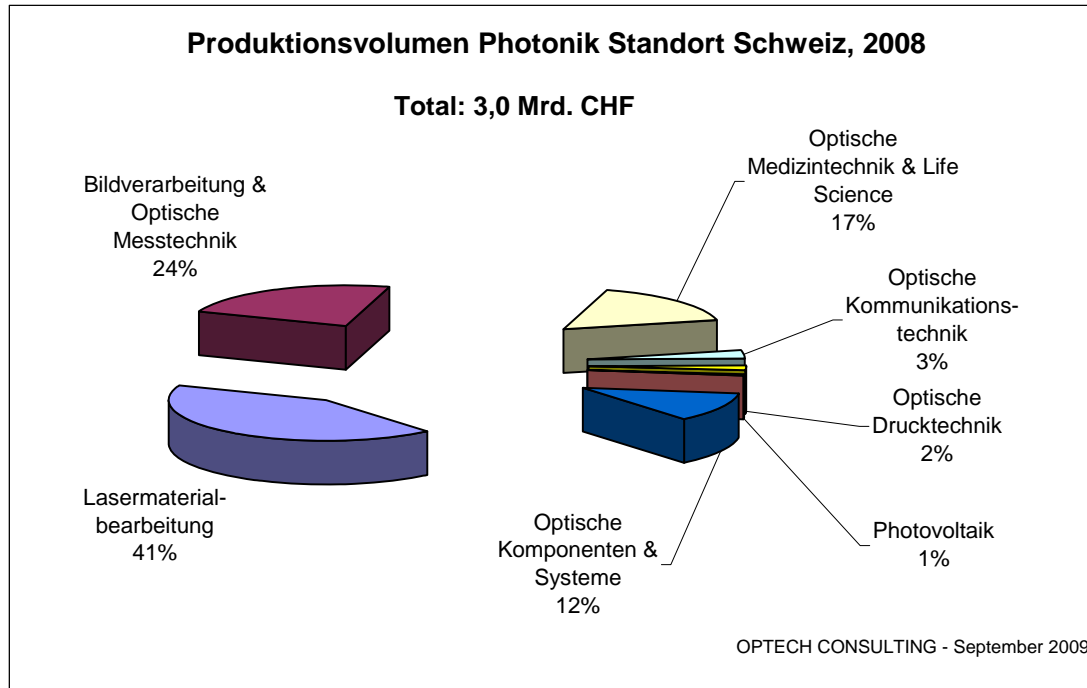
Christoph Harder, President

www.Swisslaser.Net

September 30, 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	Oclaro	Balzers	Enablence	3 S Swiss Solar	BASF
	Bystronic	Baumer	Beam Express	Flexcell	Epispeed
	Dätwyler	Cedes	Bookham	Flisom	Huntsman
	Lasag	Fisba Optik	Diamond SA	Fluxim	Novagan
	Leister	Haag-Streit	Huber&Suhner	Huntsmann	Oerlikon
	Lüscher	Leica Geosystems	Xenlux	Meyer- Burger	Zumtobel
	Oerlikon	Leica Microsystems	+10 (see industry rep.)	Oerlikon	
	One-Five	Roche-Diagnostics		Pramac	
	Silitec	Schott Guinhard		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				

Swiss National Technology Policy

➤ **Switzerland lacks strong national policy for technology leadership:**

- International science is important (SNSF)
- Direction is given by international experts (EU, ESA)
- Company R&D needed for technology leadership is not funded (CTI)

➤ **Today: Swiss companies are at a disadvantage in international competition**

- Data (Swiss government funding programs >100 Mio)

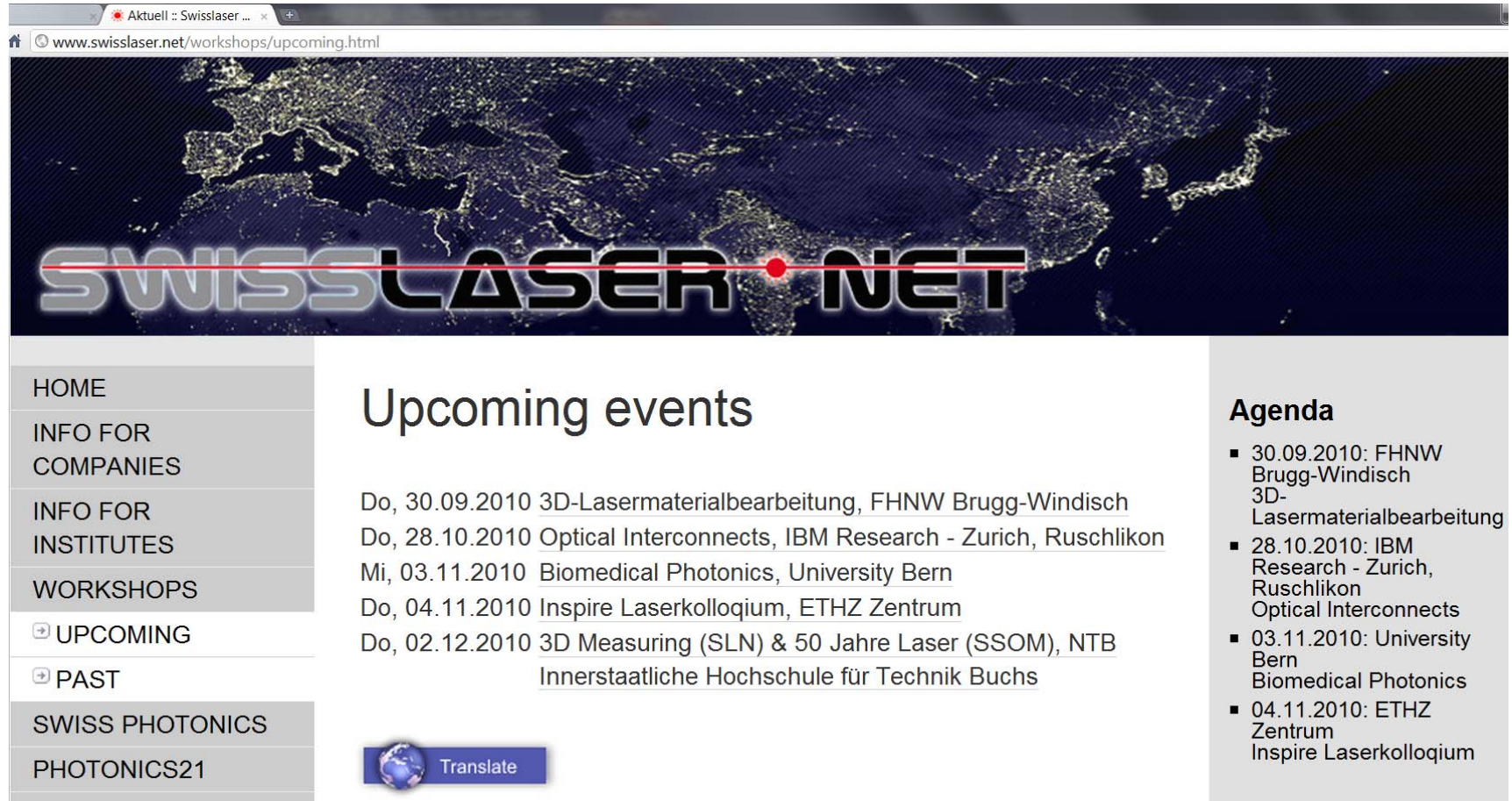
Program	Funding Mio CHF	Program Direction	Program Type	Institute R&D	Company R&D
SNSF	650	International experts	Bottom up	Funded	No
EU R&D	300	International program	Top down	Funded	Funded
ESA Space	120	International program	Top down	Funded	Funded
CTI	130	National experts	Bottom up	Funded	No



Swisslaser

- Das Schweizer Innovations-Netzwerk für Laser und Photonik
 - **Konzentriert auf gesamte Photonik Branche**, von Photovoltaik bis Laserstrahlwerkzeug
 - **Gesamt Schweiz** und international vernetzt
 - Unterstützung des Technologietransfers vom **Nationalfonds über KTI bis zu der Europäischen Technologieplattform “Photonik 21”**
- Swisslaser
 - Hat mehr als 50 Mitglieder, Institute und Firmen
 - Ist Mitglied von internationalen Photonik Netzwerken (EPIC, IOA, OIDA, OSA) und verschafft so Zugang zu internationale Geldern und Marketingreports.
 - Gibt Seedmoney (Fr. 5000.-) Unterstützung an Mitglieder um KTI Projekteingaben zu starten
 - Organisiert Workshops zum Zusammenbringen der optimalen Institute und Firmen für Innovationsprojekte
 - Hat das Schweizer Nationale Applikationslabor für Laserstrahlwerkzeuge im 2010 gestartet (SNAPP)
 - Hat in den letzten 2 Jahren je 6 Mio KTI Gelder im Swisslaser Netzwerk erreicht

www.swisslaser.net,
www.swissphotonics.net



A screenshot of a web browser displaying the 'www.swisslaser.net/workshops/upcoming.html' page. The browser's address bar shows the URL. The page features a dark background with a satellite-style map of Europe and the text 'SWISSLASER NET' overlaid in a stylized font with a red laser line. Below the header is a navigation menu with links for HOME, INFO FOR COMPANIES, INFO FOR INSTITUTES, WORKSHOPS, UPCOMING (highlighted), PAST, SWISS PHOTONICS, and PHOTONICS21. The main content area is titled 'Upcoming events' and lists five events with their dates and locations. To the right, an 'Agenda' section lists the same events in a bulleted format. At the bottom left of the main content area, there is a 'Translate' button with a globe icon.

HOME

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PHOTONICS21

Upcoming events

Do, 30.09.2010 3D-Lasermaterialbearbeitung, FHNW Brugg-Windisch

Do, 28.10.2010 Optical Interconnects, IBM Research - Zurich, Ruschlikon

Mi, 03.11.2010 Biomedical Photonics, University Bern

Do, 04.11.2010 Inspire Laserkolloqium, ETHZ Zentrum

Do, 02.12.2010 3D Measuring (SLN) & 50 Jahre Laser (SSOM), NTB
Innerstaatliche Hochschule für Technik Buchs

Agenda

- 30.09.2010: FHNW Brugg-Windisch 3D-Lasermaterialbearbeitung
- 28.10.2010: IBM Research - Zurich, Ruschlikon Optical Interconnects
- 03.11.2010: University Bern Biomedical Photonics
- 04.11.2010: ETHZ Zentrum Inspire Laserkolloqium

Translate

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SNAPP

SNSF PHOTONICS

LASERFEST

ECOC 2011

DOWNLOADS

LINKS

SLN - THE
ASSOCIATION

SLN: THE TEAM

SNAPP

Swiss National Application laboratory for Photonic tools and Photonic manufacturing

The Swiss material processing industry has expressed interest in a Swiss national application laboratory for photonic tools and photonic manufacturing (SNAPP) for the following reasons

- Close proximity for ease of access of application laboratory
- Continuity of personel at Swiss center of competence
- Protection of know how in international competitive landscape
- Priority of access which is not guaranteed at international laboratories

The SNAPP consists today of the following four laboratories (from east to west) with the following contact persons:

- **EMPA Thun** (EMPA), Dr. P. Hoffmann [Email](#)
- **UAS Burgdorf** (ALPS@BFH), Dr. B. Neuenschwander [Email](#)
- **UAS Windisch**, B. Lüscher [Email](#)
- **ETH Zürich** (Inspire), Dr. Ing. F. Pude [Email](#)

Please contact any of the persons or the SLN info [Email](#) if you require assistance or a service.

Agenda

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News:

50th Birthday of the
Laser

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