

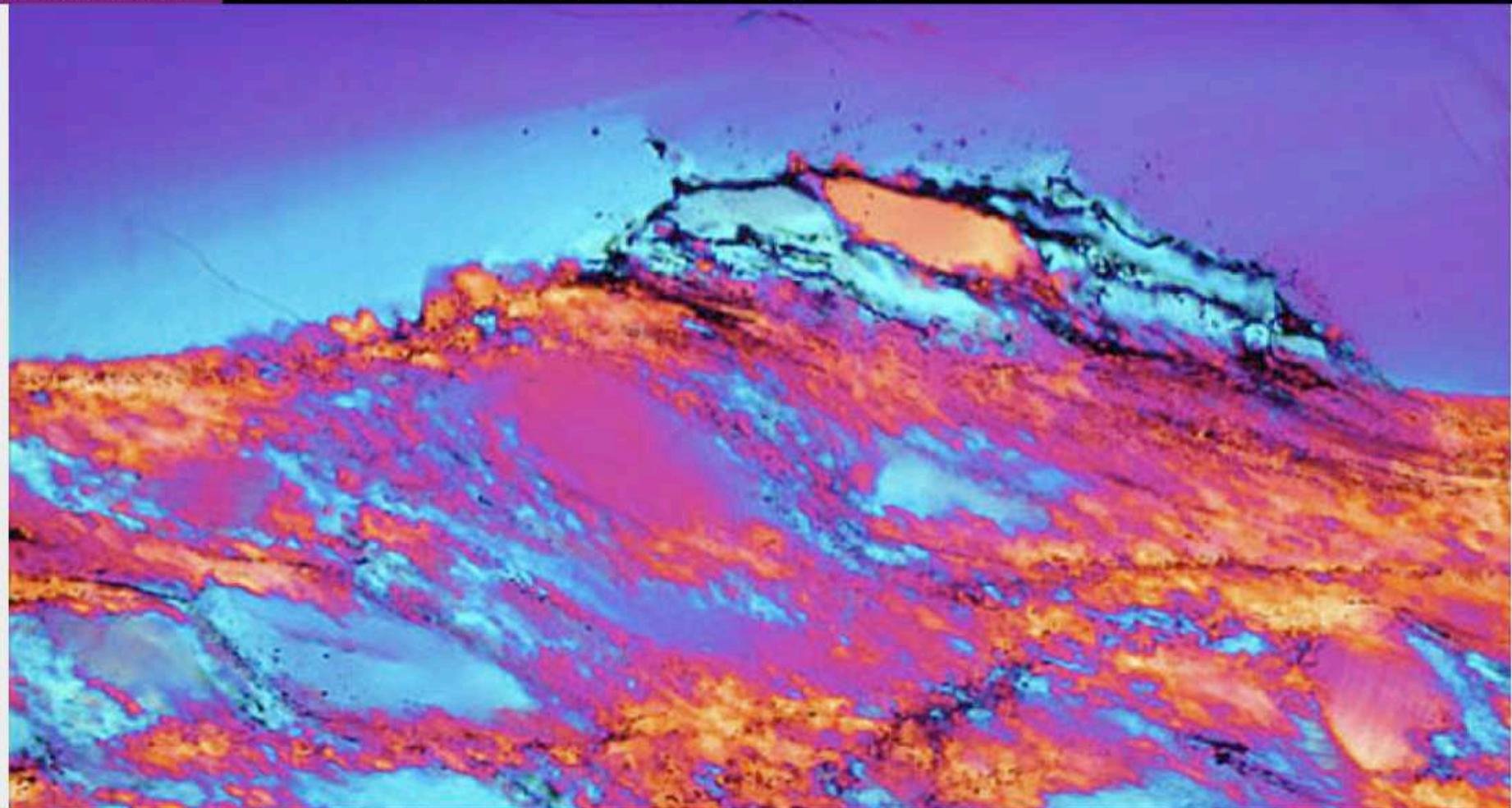
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SCIENTIFIC ILLUSTRATION AND PUBLISHING

WISSENSCHAFTLICHES PUBLIZIEREN UND ILLUSTRIEREN

Übung (1 KP)

RENEE HEILBRONNER

Inhalt

Die Veranstaltung richtet sich an Studierende der höheren Semester, welche mit der einer grösseren Abschlussarbeit bzw. mit der Publikation ihrer Forschung befasst sind.

An vier Nachmittagen werden folgende Themen behandelt.

1. Herstellung einer Webpage (Text Editor, Browser)
2. Digitale Druckvorlagen (Vektor und Rastergrafik, Adobe Photoshop)
3. Herstellung eines Posters (Adobe Illustrator, Powerpoint)
4. Wissenschaftlicher Vortrag (PowerPoint).

Beilagen

werden verteilt

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Termine

27.10. Druckvorlagen

3.11. Poster

10.11. home page

17.11. Vortrag

24.11. frei

PASS / FAIL

Leistungsüberprüfung:

1. Poster in digitaler Form abgeben
2. home page (Folder)

Aufgabe I - Druckvorlagen

Im Folder GSA befinden sich Originalaufnahmen von Dünnschliffen
(verschiedener Mikrostrukturen in Quarz und Feldspat)

Im Folder microstructures befinden sich die aufbereiteten Versionen
davon. >>> Publikation Virtual Explorer

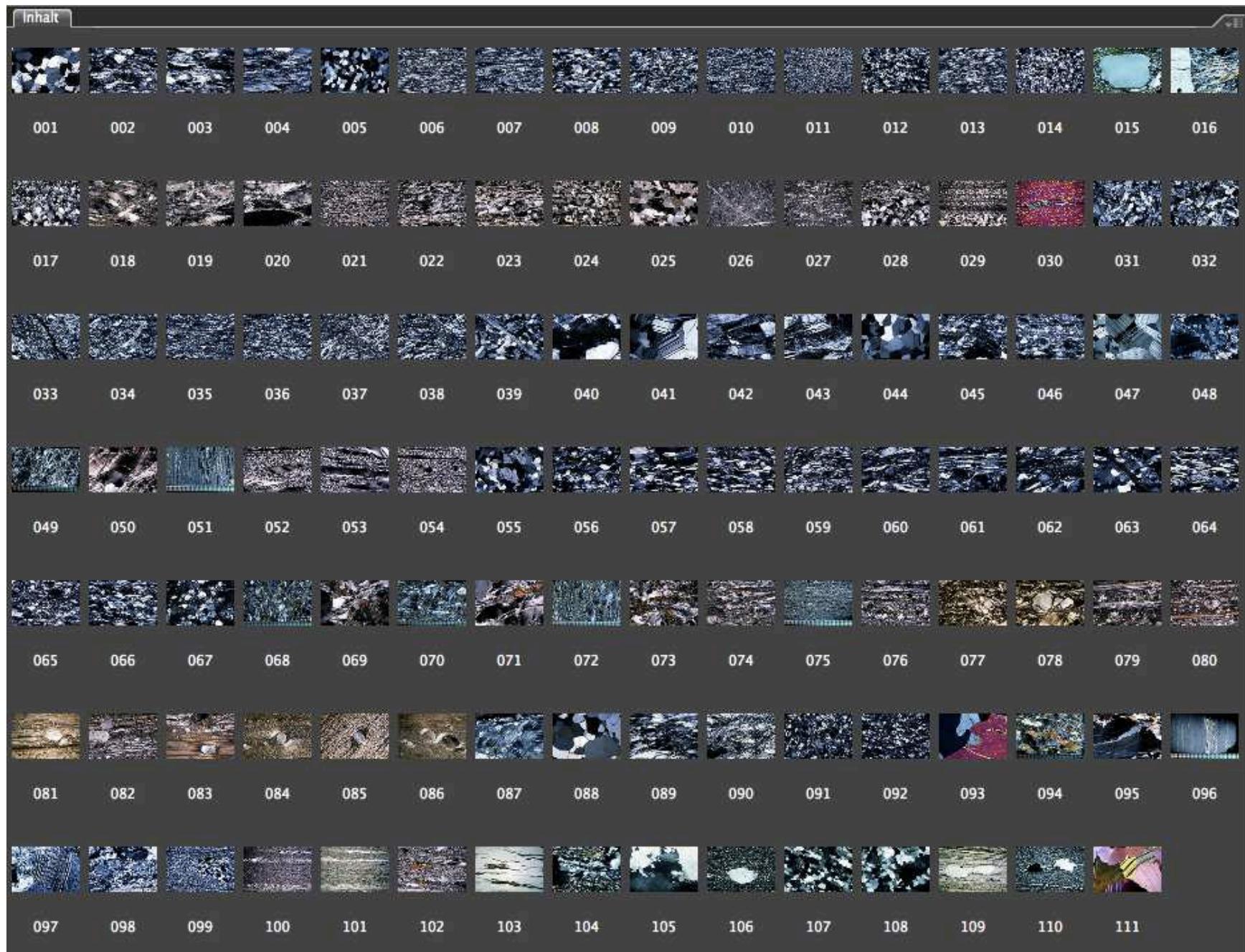
Nachvollziehen:

1. Hintergrundkorrektur select circle satzration brightness corr
2. Farbkorrektur colour corr
3. RGB - YMCK umwandlung monitor - druck
4. RGB - greyscale Kanal wählen
5. Kontrast Transfer kurven
6. Maßstab einsetzen make scale
7. Hinweis auf bestimmte Strukturen Layers

Figurentafel herstellen aus 4-6 Mikrostrukturen

- farbig
- greyscale

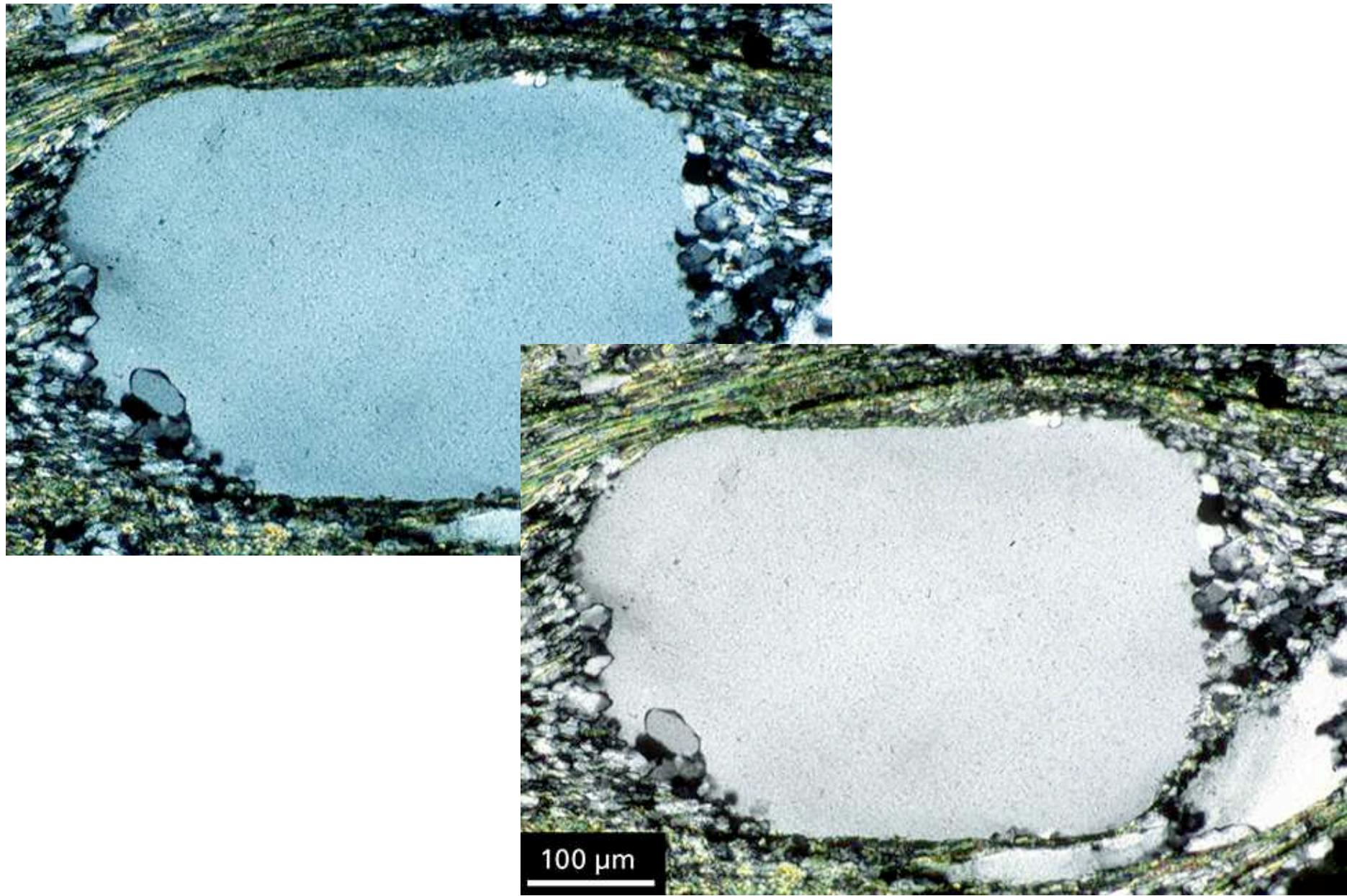
GSA: Rohversionen



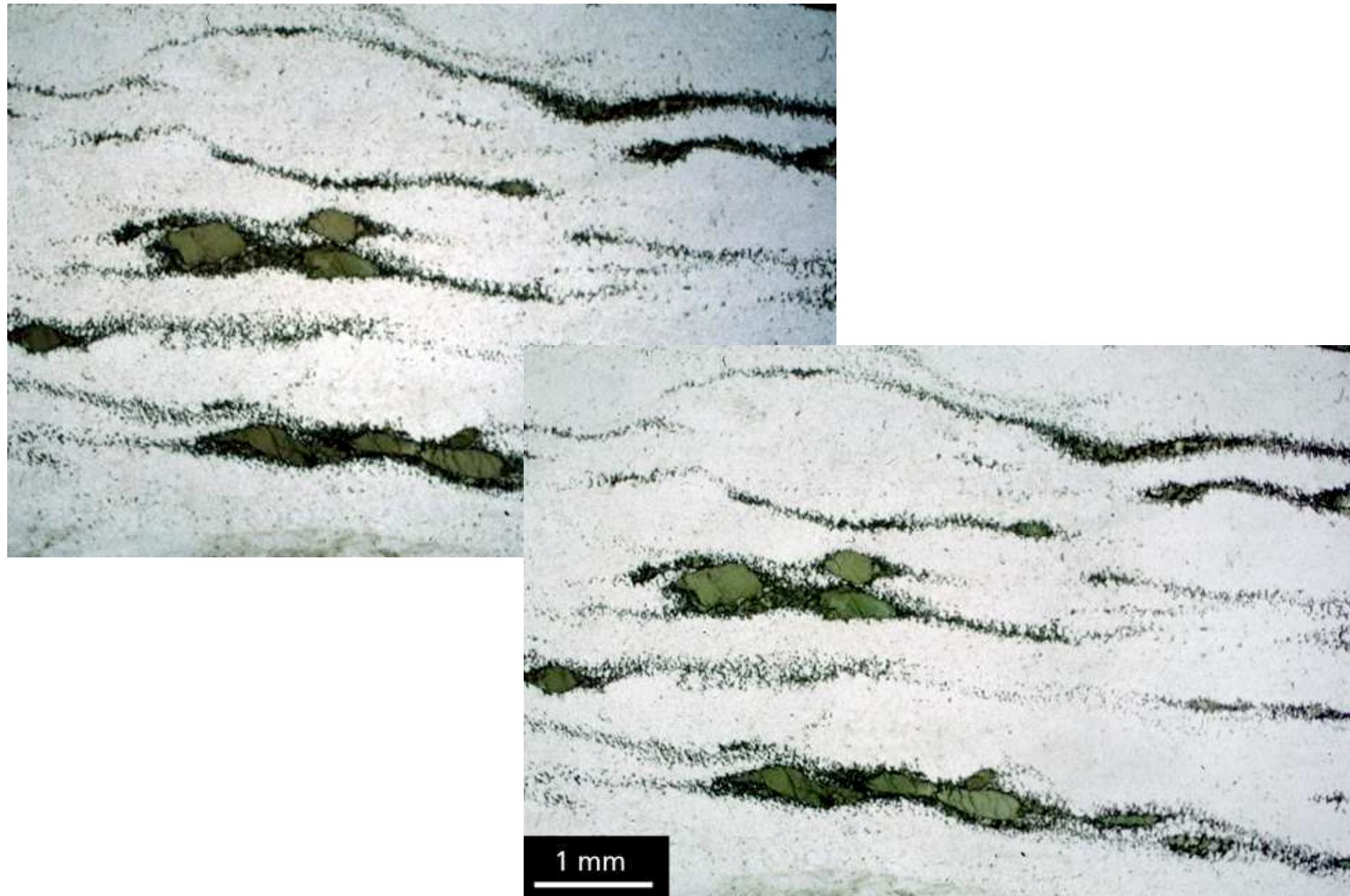
Slides: bearbeitete Versionen (cf. Virtual Explorer)



vorher - nachher



vorher - nachher



mit Layers arbeiten



Grauwert bild



aus geologischem Führer

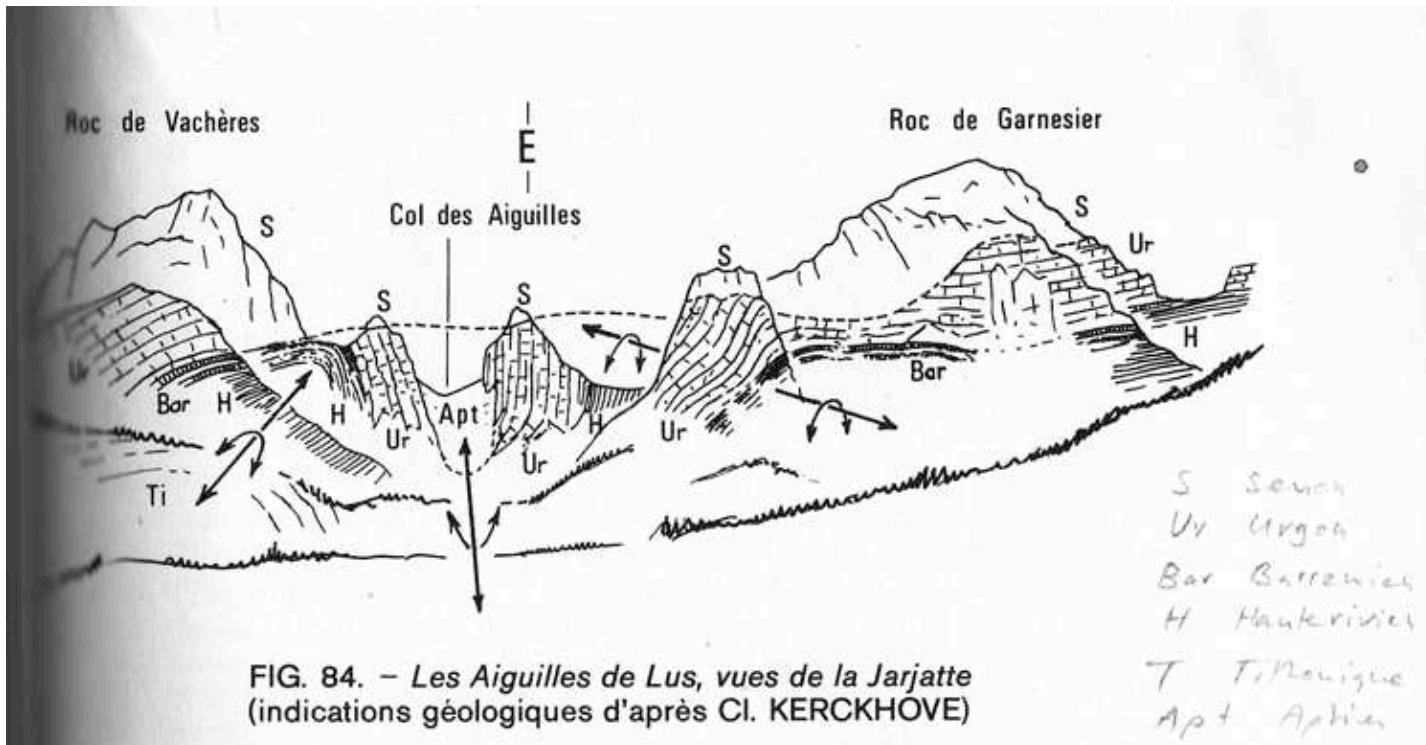
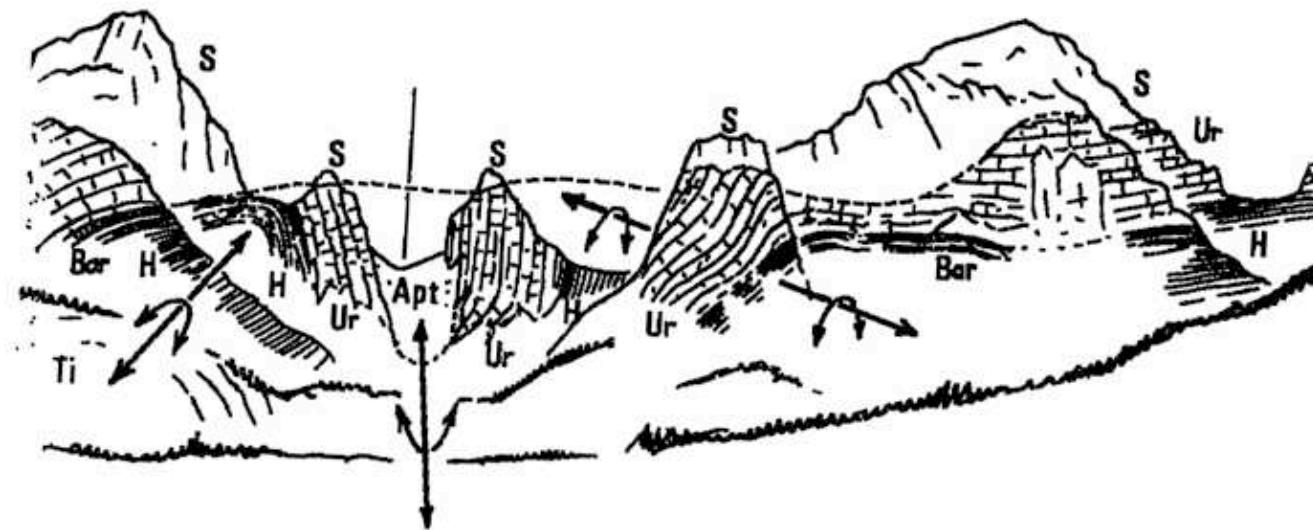


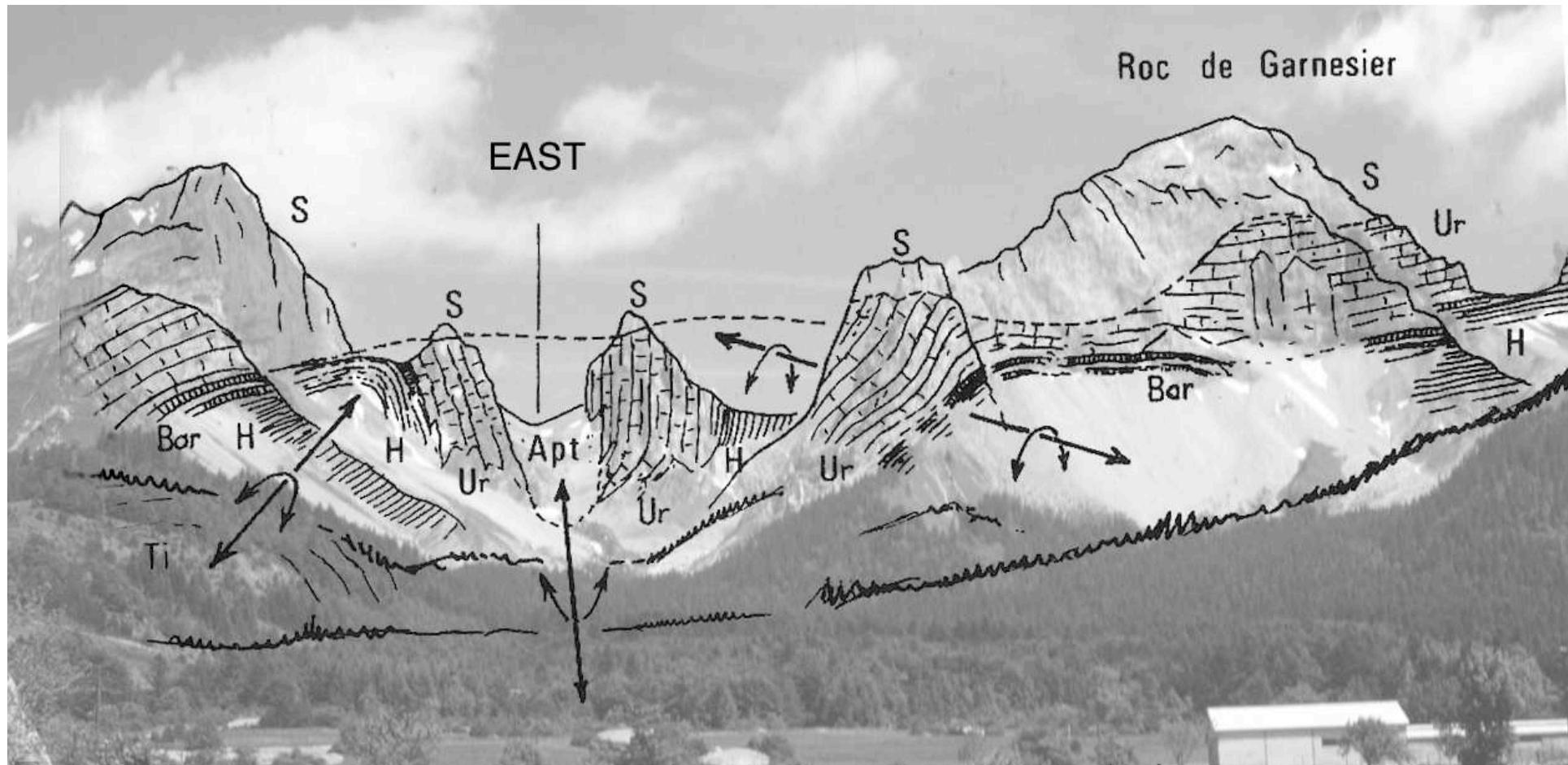
FIG. 84. – *Les Aiguilles de Lus, vues de la Jaratte*
(indications géologiques d'après Cl. KERCKHOVE)

S Senon
Ur Urgon
Bar Barremien
H Hautevienne
Ti Tinouigne
Apt Aptien

korrigierte Version



Montage



Aufgabe 2 - Poster

Figurtafel herstellen aus 4-6 Mikrostrukturen

- farbig
- greyscale

Posterkonzept

Publikum ? Veranstaltung (Konferenz, Dauerausstellung, ...?)

Story, Layout

Titel, Name, Logo, email etc.

Raster, flow chart, (story board)

Figuren - captions, eventuell Platzhalter

AGU guidelines for posters

<http://sites.agu.org/fallmeeting/scientific-program/presenter-convenor-instructions/poster-session-guidelines-for-presenters/>

Each presenter is provided with a 4-foot-high by 6-foot-wide poster board. Poster boards have a 2.5 cm (1-inch) frame. Dimensions of the useable work area are 1.2 meters high by 1.8 meters wide (4 feet high x 6 feet wide).

AGU guidelines for posters

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Poster drucken

Prinzipiell zwei Möglichkeiten
für 1.20 m x 1.80 m

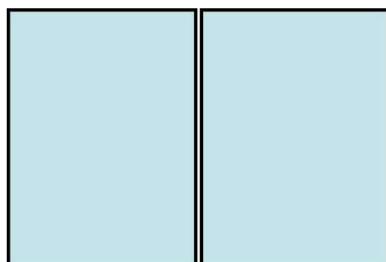


~0.85

$$1.25 + 0.55 = 1.80$$

A0 Drucker URZ druckt
Oversize A0: 88 · 125 cm

von A4 auf A0 → 400%
300dpi → 75 dpi



1.25

$$0.85 + 0.85 = 1.70$$

Papierformat A0

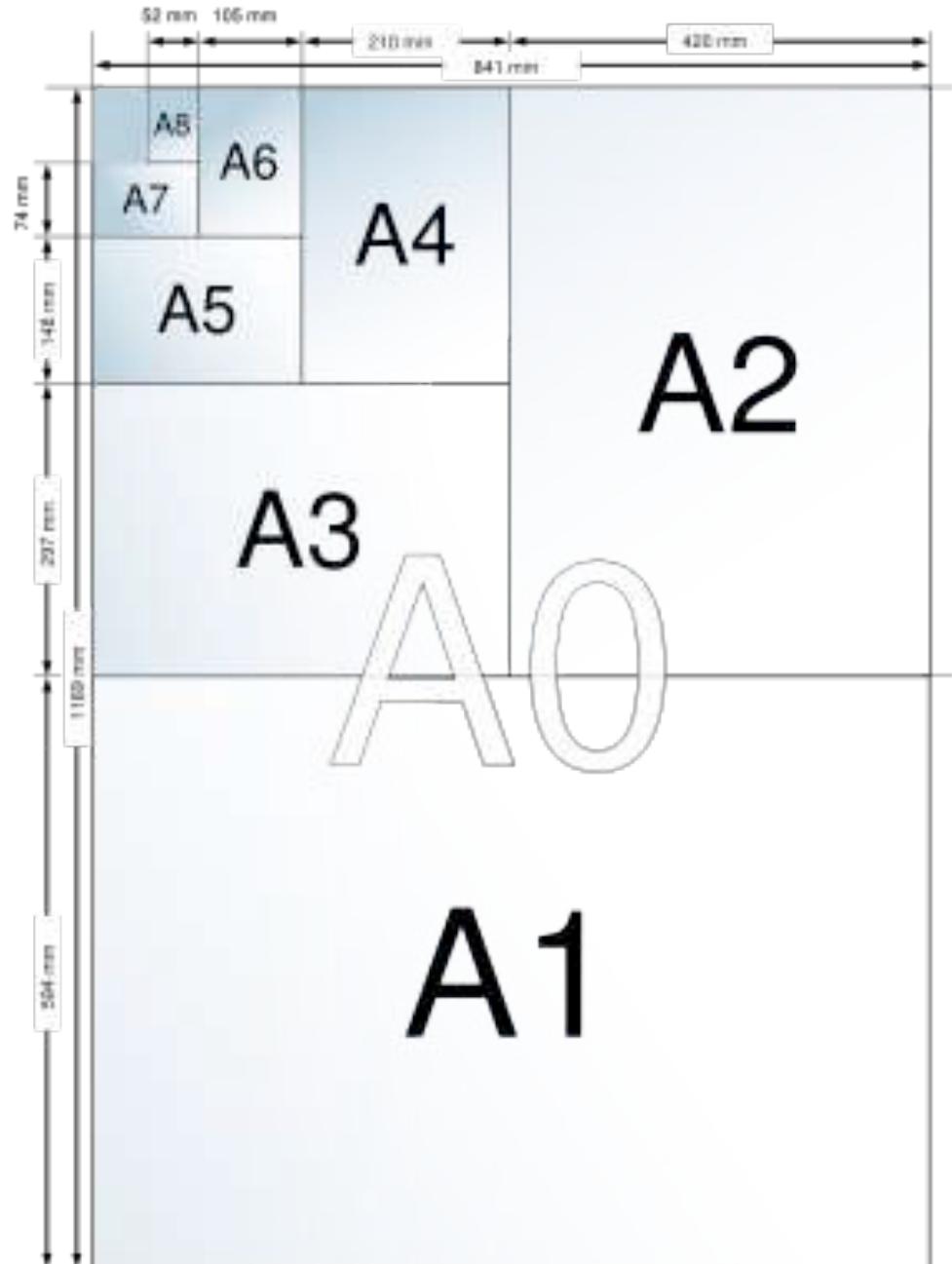
= 1m² mit

Seitenverhältnis:

1: $\sqrt{2}$ (1:1.4142)

$\approx 80 \text{ cm} \cdot 120 \text{ cm}$

size	A Series Formats		B Series Formats		C Series Formats	
	in mm	in inches	in mm	in inches	in mm	in inches
0	841 × 1189	33.1 × 46.8	1000 × 1414	39.4 × 55.7	917 × 1297	36.1 × 51.1
1	594 × 841	23.4 × 33.1	707 × 1000	27.8 × 39.4	648 × 917	25.5 × 36.1
2	420 × 594	16.5 × 23.4	500 × 707	19.7 × 27.8	458 × 648	18.0 × 25.5
3	297 × 420	11.7 × 16.5	353 × 500	13.9 × 19.7	324 × 458	12.8 × 18.0
4	210 × 297	8.3 × 11.7	250 × 353	9.8 × 13.9	229 × 324	9.0 × 12.8
5	148 × 210	5.8 × 8.3	176 × 250	6.9 × 9.8	162 × 229	6.4 × 9.0
6	105 × 148	4.1 × 5.8	125 × 176	4.9 × 6.9	114 × 162	4.5 × 6.4
7	74 × 105	2.9 × 4.1	88 × 125	3.5 × 4.9	81 × 114	3.2 × 4.5
8	52 × 74	2.0 × 2.9	62 × 88	2.4 × 3.5	57 × 81	2.2 × 3.2
9	37 × 52	1.5 × 2.0	44 × 62	1.7 × 2.4	40 × 57	1.6 × 2.2
10	26 × 37	1.0 × 1.5	31 × 44	1.2 × 1.7	28 × 40	1.1 × 1.6



http://en.wikipedia.org/wiki/Paper_size

AGU guidelines for posters

The presentation must cover the material as cited in the abstract.

Place the title of your paper and your paper number prominently at the top of the poster board to allow viewers to identify your paper.

Indicate:

- 1) the abstract's presentation number,
- 2) title, and
- 3) authors' names.

Beispiel

Nummer Titel Name(n) e-mail Logo

MR23B-1327

The geometry of random mixing: quantifying spatial distributions

Holger Stünitz *, Renée Heilbronner * and Helmut Schaeben **

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DEFORMATION MECHANISMS	MODELS FOR GEOMETRY	DERIVED MEASUREMENTS	EXAMPLE
<p>Different deformation mechanisms may develop different phase distributions. These can be used to identify or characterize the operating dominant mechanisms. Phase distributions may also potentially be used to quantify deformation processes by databases.</p> <p></p> <p>Example from a mylonite in the Trossingen gneiss (Switzerland; metamorphic temperature of ~650°C).</p> <p></p> <p>Grains of one phase nucleate and grow between grains of other phases.</p> <p></p> <p>Schematic drawing of diffusion creep. It includes a schematic and a micrograph showing grain boundary migration.</p> <p></p> <p>Particles are fragmented and displaced relative to each other during cataclastic flow.</p> <p></p> <p>Phase separation and mixing occurs during cataclastic flow. The degree of mixing may increase with progressively larger displacement, but there is no data to quantify this process.</p> <p></p> <p>The resulting textures may form "handin", "diabase" or "antidiabase" patterns. To derive the nature of the underlying processes and to quantify the active deformation mechanisms, it is necessary to find reliable descriptors by which random and non-random spatial distributions can be quantified and distinguished from one another.</p>	<p>There are a number of deformation mechanisms that involve mixing of different mineral phases. For example, in cataclastic flow, particles are fragmented and displaced past each other. In diffusion creep, grains of one phase nucleate and grow between grains of other phases.</p> <p></p> <p>Pre-existing 2-D chess-board or Voronoi polygons. Phases (black or white) are assigned to grid via random numbering.</p> <p></p> <p>Small grains derived from larger parent grains by nucleation usually form phase modules during diffusion creep while dynamically recrystallized grains during cataclastic flow form clusters.</p> <p></p> <p>A pre-existing cluster of N grains is divided into 1 to N sub-clusters, consisting of N to 1 grains respectively. The probability for the number of clusters and their size distribution is calculated.</p>	<p>Binomial distribution</p> <p>For all models, the phase boundaries AA between A and B and grain boundaries AB and BB are calculated.</p> <p></p> <p>For the random chess boards, the binomial distribution is measured.</p> <p>3-D - 2-D voronoi</p> <p>volume model: Constant grain size is assumed. \Rightarrow probability for a neighbour of phase A depends on volume proportion of A.</p> <p>surface model: No assumption about grain size. \Rightarrow probability for a neighbour of phase A depends on surface proportion of A.</p> <p></p> <p>For the sections of the random 3-D Voronoi, the relative amounts of grain contacts (AA, BB and AB) follow a binomial distribution.</p> <p>Because of constant average grain size, the volume proportions of both phases and the surface proportions of both phases are identical.</p> <p>allsums</p> <p>A more general model for random distributions considers only one phase (A) and two types of grain contacts (AA and AB, where B is the "matrix"). This model is based on fragmenting a cluster of phase A into smaller clusters. It predicts the most probable distribution of cluster sizes and the probability for contact types AA and AB.</p> <p></p> <p>Only one phase (A) in matrix (B) considered. A highly diluted situation is envisaged: clusters do not touch each other.</p> <p></p> <p>ratio of grain boundary length to grain size for three types of clusters: long, square, round.</p>	<p>An example of a non-random distribution of grains we studied the eclogites of the Trondom Nappe (Caledonides, Norway). Previous studies indicate that the dominant deformation mechanism is diffusion creep, a process known to create antidiabased distributions of mineral grains. In the course of field observations we collected a large dataset of random and non-random 2-D geometries and compared it to results from 3-D numerical modelling.</p> <p></p> <p></p> <p>Left panel: Diffusion creep. Right panel: Antidiabase. Labels: grain frequency = green, grain boundary = red, grain-grain connectivity = blue green.</p> <p></p> <p>Because of the different grain sizes of omphacite and garnet, the eclogites were evaluated using the surface model. It can be shown that their microstructures result from spatial random distributions showing various degrees of antidiabasing effects. Many (red) and few (green) grain boundaries are oriented or elongated being stronger in the direction of the stretching (red line) than in direction of the foliation normal. From this we infer that diffusion creep occurred by solution-precipitation processes and heterogeneous nucleation.</p> <p></p> <p>Since AA, BB and AB always add up to 100%, the error has to be calculated as in compositional data. This, however, is work in progress.</p>

pdf = 4.2 MB

AGU guidelines for posters

Highlight the authors' names, e-mails, and address information in case the viewer is interested in contacting you for more information.

Prepare all diagrams or charts neatly and legibly beforehand in a size sufficient to be read at a distance of 2 meters.

Paragraph and figure caption text should be AT LEAST 24-point font (0.9 cm height) and headers AT LEAST 36 point font (1.2 cm height).

AGU guidelines for posters

Use creativity by using different font sizes and styles, perhaps even color.

Use different colors and textures/symbols for each line or bar contained in your graph or chart.

A serif font (e.g., Times) is often easier for reading main text, and a non-serif font (e.g., Arial or Helvetica) for headers and figure labels.

AGU guidelines for posters

A serif font (e.g., Times) is often easier for reading main text, and

a non-serif font (e.g., Arial) for headers and figure labels.

a non-serif font (e.g., Helvetica) for headers and figure labels.

a non-serif font (e.g., Gills Sans) for headers and figure labels.

AGU guidelines for posters

Organize the paper on the poster board so it is clear, orderly, and self-explanatory.

⇒ storyboard

You have complete freedom in displaying your information in figures, tables, text, photographs, etc.

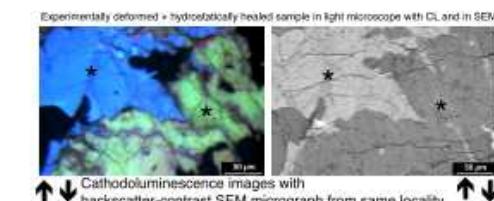
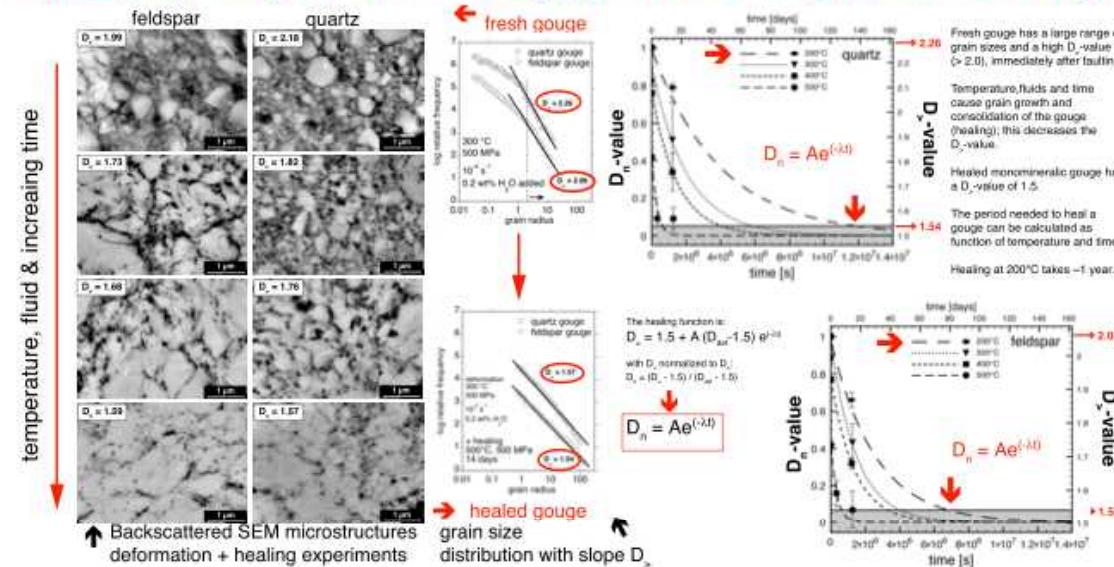
Beispiel

→ storyboard:
3 major topics

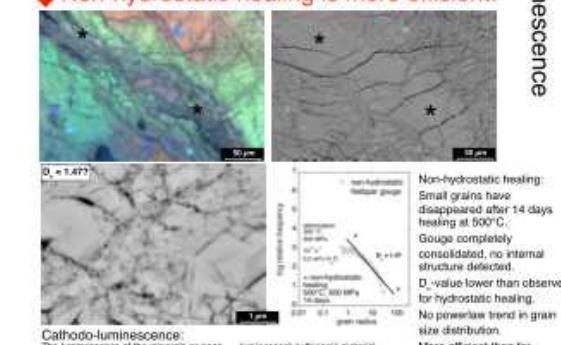
Healing mechanisms and healing period of granitoid fault gouge at hypocentre depth pT-conditions

Nynke Keulen*, Renée Heilbronner*, Holger Stünitz*, Karl Ramseyer^b
 *Geological Institute, University of Basel, Switzerland ^bInstitute of Geological Sciences, University of Bern, Switzerland nynke.keulen@unibas.ch

Hydrostatic healing - from loose fault gouge to consolidated cataclasite in ~1 year



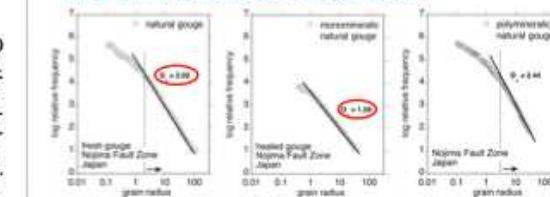
Non-hydrostatic healing is more efficient:



Cathodo-luminescence:
 The luminescence of the minerals as seen with a light microscope connected to a cathodoluminescence camera (CL) reflects the amount and nature of trace elements and defects in the mineral lattice (Perry and Mullis, 2000), giving each mineral a distinctive color. CL is most commonly applied to sedimentary diagenesis, where dark, low

luminescent authigenic mineral makes a clear difference from brightly luminescent detrital mineral. The luminescence of minerals can therefore be used as a tracer of the influence of differences in that composition (Nakamura et al., 2005).

Same results for healing in experiments and monomineritic natural fault rock:



Fresh natural fault gouge has a D_n -value of 2.02, healed monomineritic fault gouge has a D_n -value of 1.59. The D_n -values for natural and experimental fault gouge are the same. Healing of fault gouge can be studied using the D_n -value without extrapolation.

Monomineritic fault gouge and polymineralic fault gouge from the same deformation event yield very different D_n -values. Monomineritic gouge is healed to D_n = 1.59. Healing in polymineralic gouge is impeded by the mixing of grains. The D_n -value remains high.



Methods
 Granite deformation and healing experiments were carried out on an axiomatic Vickers apparatus using a Göttinger deformation apparatus at 300 – 600 °C, 500 MPa, strain rates of 10^{-4} s⁻¹ and 0.2 wt% H₂O added. Samples were fractured to create fault gouge. After fracturing the samples were kept at hydrostatic or non-hydrostatic conditions for 4 hours to 14 days at 300 or 500 °C (healing). Thin sections of the samples were prepared and analysed with a light microscope (LM) connected to a cathodoluminescence camera (CL) and with a scanning electron microscope under back-scattered electron contrast (BSE). The experimentally deformed gneisses were compared to natural fault rock samples originating from the Alps (deformation in Tertiary) and the Black Forest (Tertiary).

Beispiel

→ storyboard:
linear
top to bottom



UNI
BASEL

Compaction and creep in experimentally deformed cataclasites

Matěj Peč^a, Holger Stünitz^b, Renée Heilbronner^a

e-mail: matej.pec@unibas.ch
^{a)} Department of Geosciences, Basel University, Bernoullistr. 32, CH-4056 Basel, Switzerland
^{b)} Institutt for geologi, Universitetet i Tromsø, Drømsveien 201, 9037 Tromsø, Norway



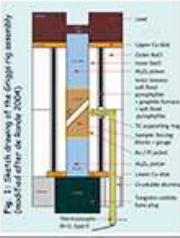
1. Introduction

The effect of grain size reduction by neo-/recrystallization on the localization of deformation and strength of rocks has been extensively studied in the past years. However, cataclastic deformation as a potential grain size reduction mechanism has received far less attention. Fracturing of rocks occurs under a wide range of conditions and produces the smallest grain sizes of all known grain size reduction mechanisms.

2. Aims & Methods

The aim of this study is to test the potential transition from frictional to viscous deformation in very fine-grained gouge material. We performed a series of simple shear experiments in a Griggs solid medium deformation apparatus (fig. 1). Crushed Verzasca Gneiss powder (grain size $< 200 \mu\text{m}$) with 0.2 wt% distilled water added was placed between forcing blocks cut at 45° and weld-sealed in gold and platinum jackets. All the experiments were run at a confining pressure of 500 MPa and temperatures of 300°C or 500°C.

Fig. 1: Schematic drawing of the Griggs assembly (modified after de Boer 2004)



3. Gouge experiments

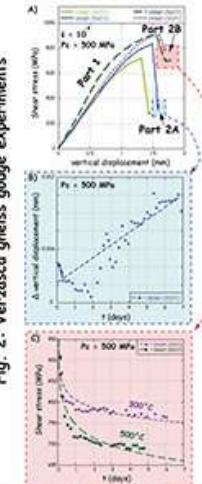
The fine grain size is produced during the frictional part (Part 1) of the experiment by fast deformation ($\dot{\epsilon} = 0.8\text{--}1.6 \cdot 10^{-4} \text{ sec}^{-1}$) to a gamma value up to 2.5. (fig. 2A)

The potential switch to creep deformation (Part 2) is tested in two different ways:

- case A (Constant load):** The peak differential stress is lowered to a level close to the confining pressure and kept constant for one week (fig. 2B).
- case B (Stress relaxation):** The sample is allowed to relax the peak differential stress over one week (fig. 2C).

In case A experiments we observe slow strain rates (as low as 10^{-8} sec^{-1}) and a temperature dependence of the creep rate.

Fig. 2: Verzasca gneiss gouge experiments



4. Microstructures

At low magnifications, samples deformed by creep (case A & B) show the same characteristics like samples deformed by frictional deformation only (fig. 4A)

However at high magnifications the microstructures are strikingly different from each other. In the samples deformed by creep we observe the disappearance of the smallest grains, lobate interconnected grain boundaries and the cementation of multiple grains into bigger ones (compare fig. 4D & 4F)

Acknowledgements:
The funding by the Swiss Nationalfonds grant NEW1523 is acknowledged.

Fig. 3: NaCl dummy friction (Part 1)

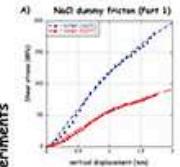


Fig. 3: NaCl dummy creep (Part 2)

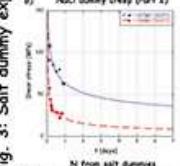
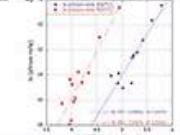


Fig. 3: Ni from salt dummy



5. Microstructures

At low magnifications, samples deformed by creep (case A & B) show the same characteristics like samples deformed by frictional deformation only (fig. 4A)

However at high magnifications the microstructures are strikingly different from each other. In the samples deformed by creep we observe the disappearance of the smallest grains, lobate interconnected grain boundaries and the cementation of multiple grains into bigger ones (compare fig. 4D & 4F)

Acknowledgements:
The funding by the Swiss Nationalfonds grant NEW1523 is acknowledged.

Fig. 4: Typical microstructures

A) Shear zone overview. Shear zone is approximately parallel to the long edge of the picture. Red dashed lines highlight shear bands. Notice that Kfs forms rigid particles (a), (c), (d), (e), (f). Kfs forms the most rounded grains of other phases and is strongly elongated. Pg is fractured to fine grains but stays in original grains on the big scale (c). Very fine grained gouge from a shear band, notice the fine feldspar highlighted by the red dashed line. (f) marks a possibly newly formed mica (b). F) Gouge that underwent creep at 500°C, notice the cementation of small grains into larger ones (e). G) Gouge that was deformed by friction only, notice the difference to D and E.

Figure 4: Typical microstructures

A) Shear zone overview. Shear zone is approximately parallel to the long edge of the picture. Red dashed lines highlight a shear zone. Notice that Kfs forms rigid particles (a), (c), (d), (e), (f). Kfs forms the most rounded grains of other phases and is strongly elongated. Pg is fractured to fine grains but stays in original grains on the big scale (c). Very fine grained gouge from a shear band, notice the fine feldspar highlighted by the red dashed line. (f) marks a possibly newly formed mica (b). F) Gouge that underwent creep at 500°C, notice the cementation of small grains into larger ones (e). G) Gouge that was deformed by friction only, notice the difference to D and E.

6. Conclusions

- Stress relaxation as well as constant load experiments show a temperature dependence
- The microstructural observations together with the temperature dependence suggest that the fine-grained gouge was deformed by solution-precipitation creep processes
- The observed dependence is not caused by the confining media

References:
de Ronde, A. A., (2004), Mineral reaction and deformation in plagioclase-olivine composites: An experimental study. Diss. phil.-nat., Basel University, Switzerland

Beispiel

→ storyboard:
Zeitungsaartikel



The Availability of H₂O for Deformation in Natural Quartz Single Crystal Experiments



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** Institute of Geological Sciences, University of Bern, Baltzerstr. 3, CH-3012 Bern, Switzerland

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Introduction:

H₂O is very important for quartz deformation. Experimental studies on synthetic and natural quartz crystals demonstrated that

H₂O dramatically reduces the strength of the material (e.g. Griggs & Blacic 1965). We have performed deformation experiments in the solid medium Griggs apparatus on natural milky quartz single crystals in order to study the effect of H₂O weakening. The compression direction has been normal to the <c>-axis and one of the prism planes.

Experiments and H₂O content:

The experiments are carried out on milky quartz material because this material contains enough H₂O. They show a flow strength of 150 MPa under 1 GPa confining pressure and 900°C with a strain rate of $7 \times 10^{-6} \text{ s}^{-1}$ (Fig.1). The water content in the undeformed material is very heterogeneous and not possible to determine in average. Fourier Transform Infrared spectroscopy (FTIR) point measurements ($100 \times 100 \mu\text{m}$) on the quartz material (clear regions) give an H₂O content of about 50-150 H/10⁶Si, in contrast measurements directly on fluid inclusions show an H₂O content of 250 times more (Fig.2).

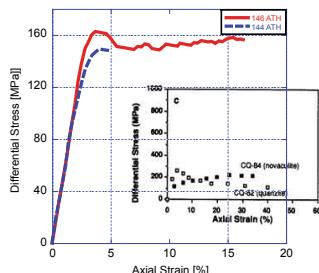


Fig.1: Stress-strain diagram of two experiments (144ATH & 146ATH) at constant displacement showing reproducible data. Next to it the total stress-strain diagram of quartzites and novaculite from Hirth and Tullis (1992) which show a comparable strength.

After deformation the H₂O distribution is more homogeneous and the majority of the big inclusions have disappeared and small inclusions are formed and often arranged in fluid clusters (Fig.3b). The H₂O content of deformed regions with undulatory extinction is approximately 3000 H/10⁶Si. We infer that during deformation the inclusions disrupt and form micro cracks. The cracks heal rapidly, during the healing and plastic deformation H₂O is distributed in the quartz crystals via defects and contributes to the H₂O-weakening effect.

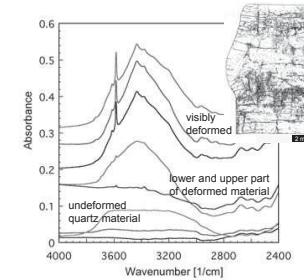


Fig.2: FTIR spectra for undeformed and deformed material. Absorbance is relative. In the right corner a modified thin section photomicrograph of a deformed sample, where the black clouds show the distribution of fluid inclusions as well as some cracks.

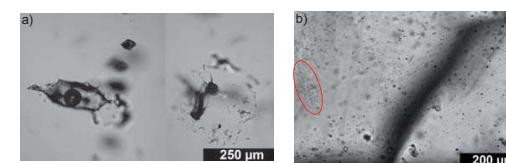


Fig.3: a) Typical fluid inclusions in the undeformed material, with a perfect negative crystal shape (left) or undifined morphology (right). The surrounding quartz is clear. b) Fluid inclusion distribution in the deformed material much smaller, homogeneous throughout the sample and often arranged in clusters (red ellipses).

Fluid inclusions:

- Large number of fluid inclusions with a high variation in size and shape (Fig.3a)
- Presence of antarcticite ($\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$) and hydrohalite ($\text{NaCl} \cdot 2\text{H}_2\text{O}$)
- Ice melting temperature ranged between -6.9 and -7.4°C corresponding to an average salinity of 10.5 wt% eq.NaCl
- After deformation the salinity of the inclusions is 20% higher
- Total homogenization temperatures are between 184°C and 207°C
- Small amounts of CO₂ and some accidentally trapped solids like calcite, quartz or rutile

Conclusions:

- 1) Start with a two phase material, pure dry quartz and H₂O rich fluid inclusions
- 2) This distribution provides enough H₂O for H₂O weakening
- 3) The H₂O dispersion becomes more homogeneous during deformation by micro-cracking, crack-healing and subsequent crystal plastic deformation by dislocation glide

♦ Micro-cracking is the necessary precursor step for plastic deformation and H₂O weakening

References:

- Hirth, G. & Tullis, J. 1992: Dislocation creep regimes in quartz aggregates. Journal of Structural Geology 14, 145-159.
Griggs, D.T. & Blacic, J.D. 1965: Quartz: Anomalous Weakness of Synthetic Crystals. Science 147, 293-295.

Beispiel

→ storyboard: 2 major topics

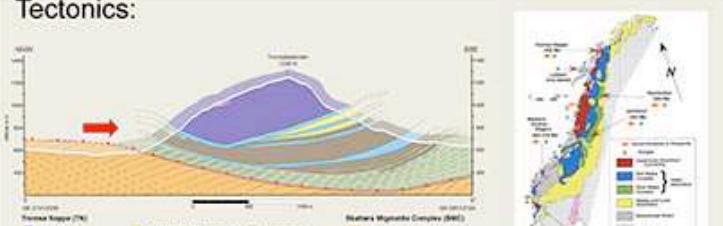
Exhumation of UHP-rocks by dominant diffusion creep in eclogites and amphibolites of the Tromsø Nappe, Northern Norway

Holger Stünitz (1), James MacKenzie (2), Renée Heilbronner (2), Kåre Kullerud (1), Erling Ravna (1), Steffen Bergh (1)

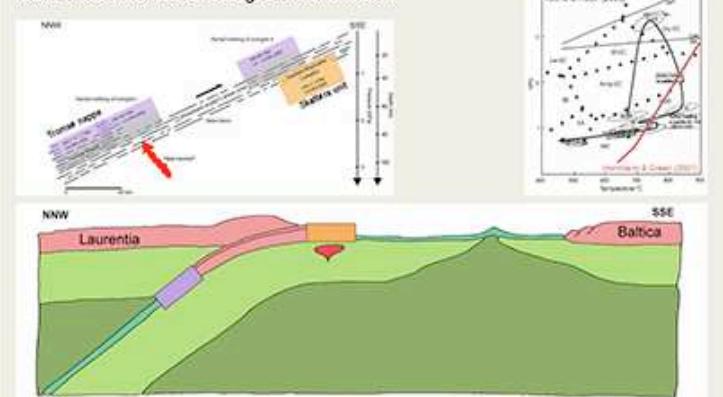
(1) Department of Geology, University of Tromsø, Dramsveien 201, 9037 Tromsø, Norway
 (2) Geologisches Institut, Basel University, 4056 Basel, Switzerland



Tectonics:

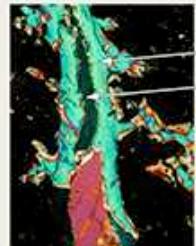
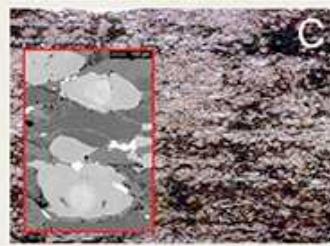
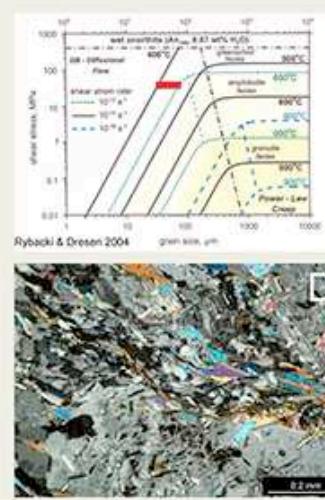


Cross section of Tromsdalstinden, a major eclogite body of the Tromsø nappe, with the underlying Skattera unit of mafic migmatites. Transport direction of the Tromsø nappe during exhumation is indicated by arrow. The P-T-loop for the eclogite and adjacent rocks shows the different stages of exhumation.



The Tromsø Nappe represents the uppermost unit of the Northern Norwegian Caledonides nappe pile and is regarded as part of the Laurentian continental margin. Its present position is caused by thrusting of continental margin sediments together with mafic rocks onto high temperature mafic migmatites (Skattera unit) of Laurentian origin. Thrusting took place after subduction, reaching UHP conditions in the Tromsø Nappe. Together, these Laurentian units were thrust onto Baltica during exhumation.

Deformation mechanisms: Crack-seal and solution-precipitation microstructures indicate diffusion creep during the eclogite facies: A. Two-stage omphacite vein forming during decompression in a pull-apart garnet (black). B. Fragmented garnet (black) with extension omphacite fibres growing in between fragments. C. Asymmetric garnet growth (note spherical cores) leads to elongate garnet shapes (parallel to extension direction). Amphibolite Facies: D.E. Fine grained mixtures of plagioclase and other phases (grain size 30 to 80 μm) also indicate diffusion creep. Deformation temperature 500 to 600C.

A 
B 
C 
D 
E 

Back-of-the-envelope-calculations for the exhumation show that the strain rates for the deformed rocks should be on the order of 10^{-12} to 10^{-10} s^{-1} .

Conclusions and summary:

The determined grain sizes and deformation temperatures during the amphibolite facies stage of the exhumation (red bar) are consistent with estimated strain rates and inferred deformation mechanism of diffusion creep at stress levels of 20 – 30 MPa when plotted in the deformation mechanism map for wet plagioclase (Rybacki & Dresen 2004). For the eclogite facies stage, deformation temperatures are higher and strain rates may be expected to be even faster.

Beispiel → storyboard: 4 topics & conclusions

Texture and microstructure development in experimentally sheared synthetic quartz single crystals

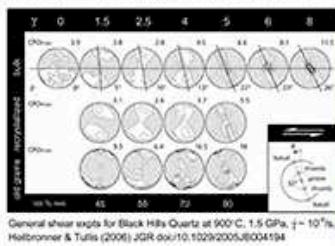
Jun Muto, Jan Tullis (Brown Univ.) & Renée Heilbronner (Univ. Basel)



1. Introduction

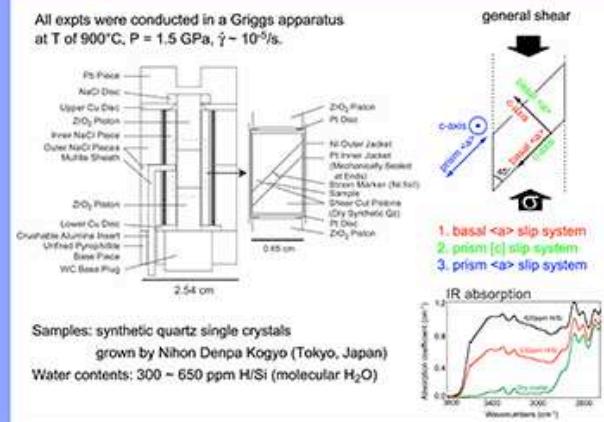
Most naturally deformed quartz aggregates are substantially or completely recrystallized, but it is not clear how dynamic recrystallization affects the LPO development during progressive deformation. The LPO developed at low temperature shows only a slight change in pattern with recrystallization; a broad peripheral maximum rotated with the sense of shear [1]. At high temperature (equivalent to regime 3 dislocation creep involving rapid grain boundary migration recrystallization), the LPO changes from an asymmetric single girdle to a single maximum at Y of the finite strain ellipsoid (i.e., Y maximum fabric) with increasing shear strain and dynamic recrystallization [2]. However, when quartzites are used as the starting material in experiments, the relationship between the orientation of host grain and recrystallized grains, and hence the mechanism by which recrystallization produces a Y maximum fabric, is not clear.

In order to clarify how dynamic recrystallization affects quartz c-axis LPOs, we have undertaken an experimental study using single crystals of relatively 'wet' synthetic quartz, using different crystal orientations in general shear (simple shear and thinning).

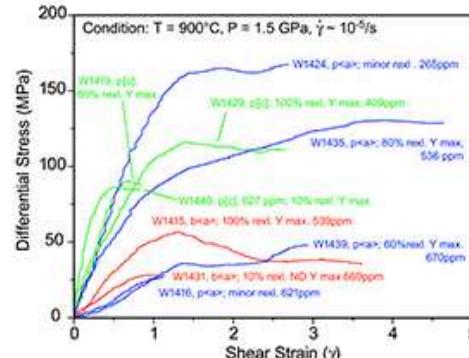


2. Experimental Methods

All expts were conducted in a Griggs apparatus at T of 900°C, P = 1.5 GPa, $\dot{\gamma} \sim 10^{-5}/s$.



3. Mechanical Data



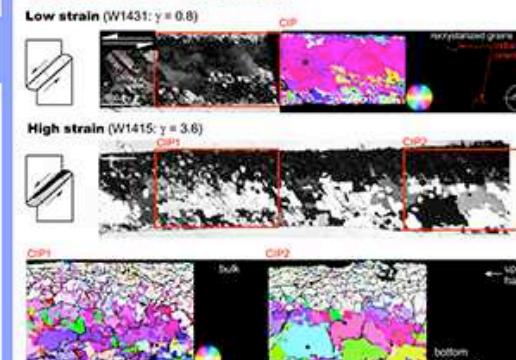
Strength of crystals of different orientations with ~ 650 ppm H/Si:

prism <a> ~ basal <a> < prism [c]

For basal <a> and prism [c] samples, the thinning component of deformation rotates the c-axis from the original orientation and activates other slip systems (see microstructures).

4. Microstructures

4.1. Basal <a> orientation

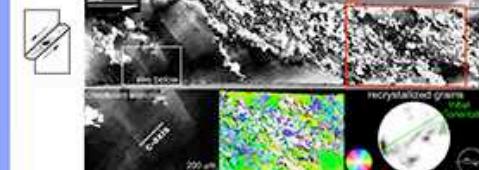


Low strain ($\gamma \sim 1$): rotation of c-axis and chessboard extinction (subgrains involving a combination of basal <a> and prism [c] slip).

High strain ($\gamma \sim 3.5$): almost complete recrystallization with a strong Y max (prism <a>) domain. Other recrystallized domains have grains with basal <a>, rhomb <a> and prism [c] orientations and larger grain sizes, probably due to strain partitioning into weaker Y max grains.

4.2. Prism [c] orientation

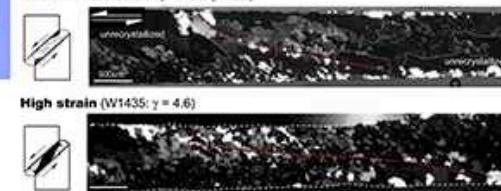
Low strain (W1419: $\gamma = 0.8$)



Intermediate strain ($\gamma = 2.5$): complete recrystallization with irregular Y max domains.

4.3. Prism <a> orientation

Intermediate strain (W1439: $\gamma = 2.9$)



5. Conclusions

Prism <a> slip system has a lower Schmid factor than other slip systems for basal <a> and prism [c] starting orientations. Grains with high Schmidt factors (i.e., oriented for basal <a> or prism [c] slip) are selectively deformed, leading to high dislocation density. Therefore, the development of prism <a> (Y max) domains with increasing shear strain and degree of dynamic recrystallization indicates that the LPO transition needs a certain amount of strain before the difference in dislocation density builds up enough for the 'weaker' prism <a> grains to replace other grains by grain boundary migration.

References: [1] Heilbronner, R. and J. Tullis (2002) Geol. Soc. London Spec. Publ., **200**, 191. [2] Heilbronner, R. and J. Tullis (2006) J. Geophys. Res., **111**, B10202

Beispiel

→ storyboard: linear - read paper (figure captions)

Texture dependent grain size in experimentally deformed quartzite

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BASEL UNIVERSITY, SWITZERLAND
BROWN UNIVERSITY, U.S.A.

1-ORIENTATION OF BLACK HILLS QUARTZITE
A backscattered electron micrograph of a thin section of quartzite. The scale bar is 5 μm. B: A polarized light micrograph of the same area. The scale bar is 5 μm. C: A schematic diagram of the sample preparation process, showing the sample being cut, polished, and then imaged.

2-ORIENTATION IMAGE
Orientation images of the quartzite. The top row shows the raw images, and the bottom row shows the processed images. The scale bars are 5 μm.

3-SHEAR STRESS
A graph showing the variation of shear stress over time during the experiment. The x-axis is time in minutes, and the y-axis is shear stress in MPa. The stress increases from ~0.5 MPa to ~1.5 MPa.

4-TEXTURE FEATURES
A series of polarized light micrographs showing different features of the quartzite texture. The scale bars are 5 μm.

5-TEXTURE DEVELOPMENT
A graph showing the development of various texture features over time. The x-axis is time in minutes, and the y-axis is normalized intensity. Features include: 1) Head, 2) Shear, 3) S-C, 4) S-C + Shear, 5) S-C + Head, 6) Head + Shear, 7) Head + S-C, 8) Head + S-C + Shear.

6-GRANULES
A graph showing the evolution of grain size and grain boundary density over time. The x-axis is time in minutes, and the y-axis is grain size (μm) and grain boundary density (%). The grain size increases from ~10 μm to ~20 μm, while the grain boundary density decreases from ~15% to ~10%.

7-TEXTURE DEPENDENT AND RECRYSTALLIZED GRAIN SIZE
A graph showing the relationship between grain size and shear stress. The x-axis is shear stress (MPa), and the y-axis is grain size (μm). Data points are shown for Head, Shear, S-C, and Head + Shear conditions. A linear regression line is shown for the Head condition.

8-WH20
A backscattered electron micrograph of the quartzite at 20 μm scale. The label "WH20" is visible.

9-WH10
A backscattered electron micrograph of the quartzite at 20 μm scale. The label "WH10" is visible.

10-INDENTATION DENSITY TO DRAW BOUNDARY DENSITY
A graph showing the relationship between indentation density and draw boundary density. The x-axis is indentation density (μm⁻¹), and the y-axis is draw boundary density (%). Data points are shown for Head, Shear, S-C, and Head + Shear conditions. A linear regression line is shown for the Head condition.

11-SHAPE OF DOMAINS
A series of polarized light micrographs showing the shape of domains in the quartzite. The scale bars are 5 μm.

12-RELATIVE VARIABILITY OF DOMAINS
A graph showing the relative variability of grain size between domains. The x-axis is grain size (μm), and the y-axis is relative variability (%). Data points are shown for Head, Shear, S-C, and Head + Shear conditions. A linear regression line is shown for the Head condition.

13-INDUCE SHEAR BOUNDARY DENSITY AS MEASURE OF GRAIN SIZE
A graph showing the relationship between induced shear boundary density and grain size. The x-axis is grain size (μm), and the y-axis is induced shear boundary density (%). Data points are shown for Head, Shear, S-C, and Head + Shear conditions. A linear regression line is shown for the Head condition.

14-INDUCE SHEAR BOUNDARY DENSITY VS. MEASURE OF GRAIN SIZE
A graph showing the relationship between induced shear boundary density and grain size. The x-axis is grain size (μm), and the y-axis is induced shear boundary density (%). Data points are shown for Head, Shear, S-C, and Head + Shear conditions. A linear regression line is shown for the Head condition.

15-ORIENTATION IMAGES OF BLACK HILLS QUARTZITE
A series of orientation images of the quartzite at different shear stresses: γ = 0, γ = 1.5, γ = 2.5, γ = 4, γ = 5, γ = 6, γ = 8. The images show increasing complexity and elongation of domains with increasing shear stress. The scale bars are 5 μm.

**Geophysical Research Abstracts, Vol. 8, 09012, 2006
M30-10, 1987-1988/06/EGU06-A-09012
European Geosciences Union 2006**

Texture dependent grain size in experimentally deformed quartzite

B. Heilbronner (1), J. Tullis (2)
(1) Basel University, Switzerland,
(2) Brown University, USA

Quartzite samples experimentally sheared at conditions where recrystallization occurs predominantly by grain boundary migration show a continuous evolution in the $c\text{-}c$ (c-axis crystallographic preferred orientation (CPO)) with increasing shear strain (up to $\gamma = 6$) and degree of recrystallization ($\gamma \leq 20$).

The c-axis pole figure evolves from a small spherical maximum indicative of head-slip to, in an inclined single girdle with two maxima indicative of sheath-coupling, and finally elongates along the maximum of the pole center indicative of grain-scale slip.

We used an computer integrated polarization microscopy (CIP) to track the strengths of the CPOs in a number of different orientation domains with increasing shear strain.

The domains correspond to c-axis orientations so-called hard-head-slip domains (head, s-c, reverse s-c, shear-shear) or "hard orientations" such as the direction of the applied shear stress.

From orientation pole figure images, we determined the grain boundary density in each of the domains.

Investigating the grain boundary density, we found that the size of grain size recrystallized grains is 1.5 times that of the average and 2 times that of the hard grains, indicating that the domain of grains has size scales at lower flow stresses than the bulk of the sample at our experimental conditions.

Based on the recrystallized grain size placement, this difference in grain size between grains and domains, domains corresponds to a difference in shear stress of 2.5 MPa at a bulk flow stress of ~ 10 MPa.

These findings are supported by wavelet correlation function (WCF) analysis of the various orientation domains and how they evolve with strain.

Shear stress is partitioned among the c-axis orientation domains. The domain density contrast between domains indicate that polycrystallites with c-axes in the basal element are initially hard but progressively soften, recrystallized grains in the mixed domain are relatively weak, and those with c-axes in the prism domain are the weakest.

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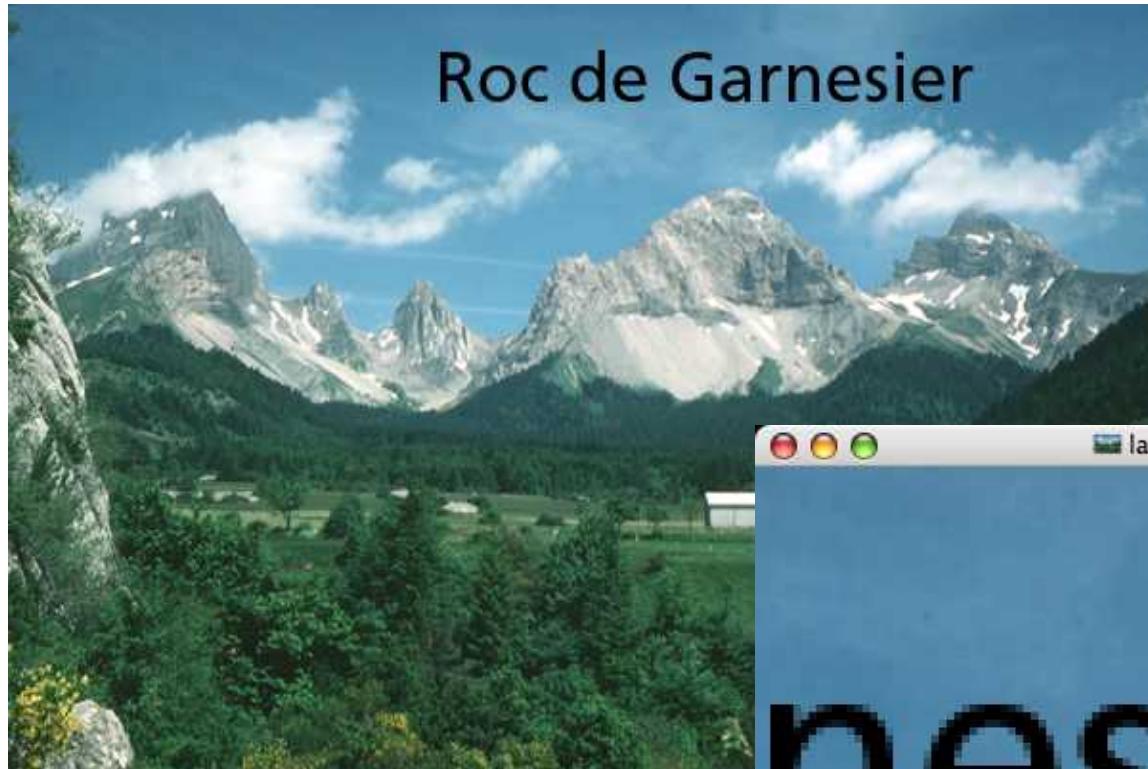
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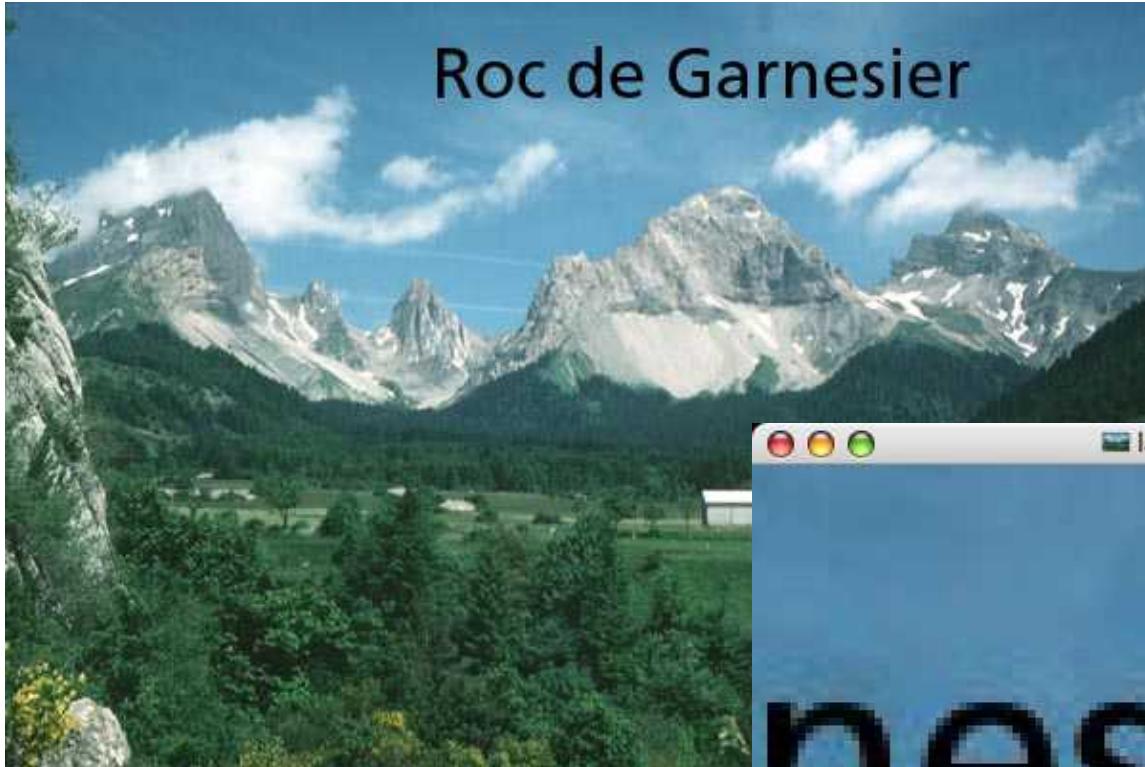
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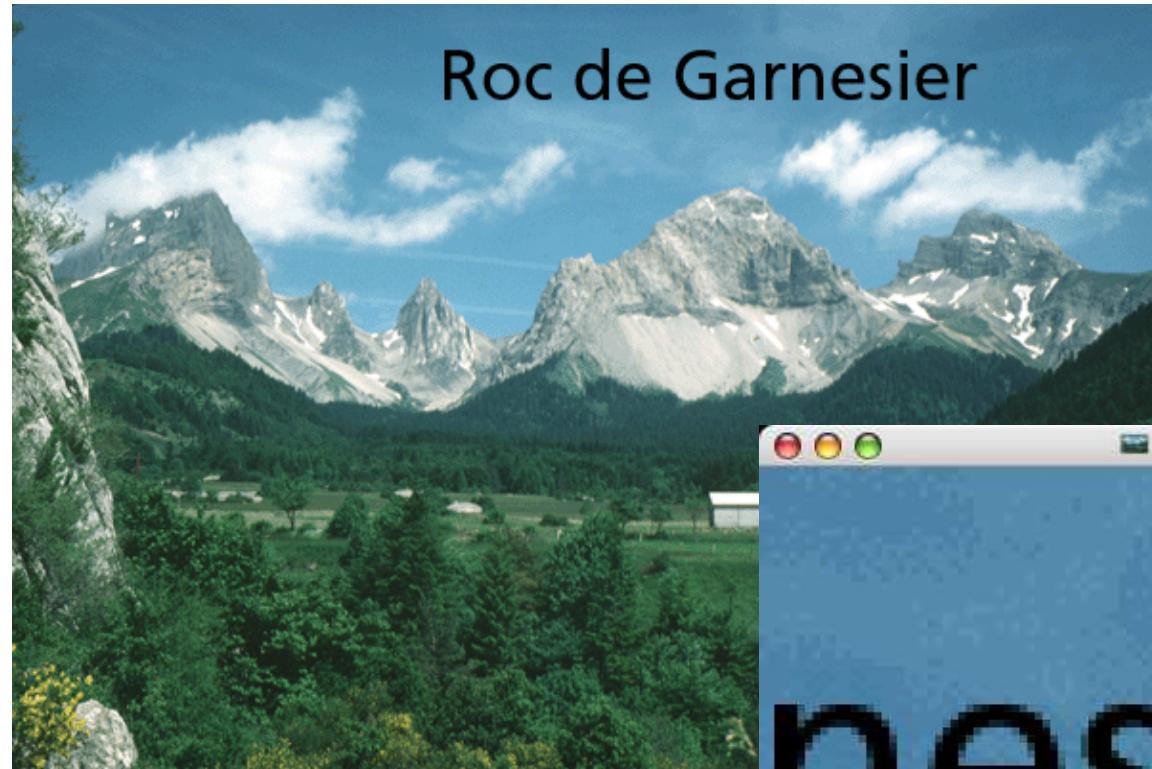


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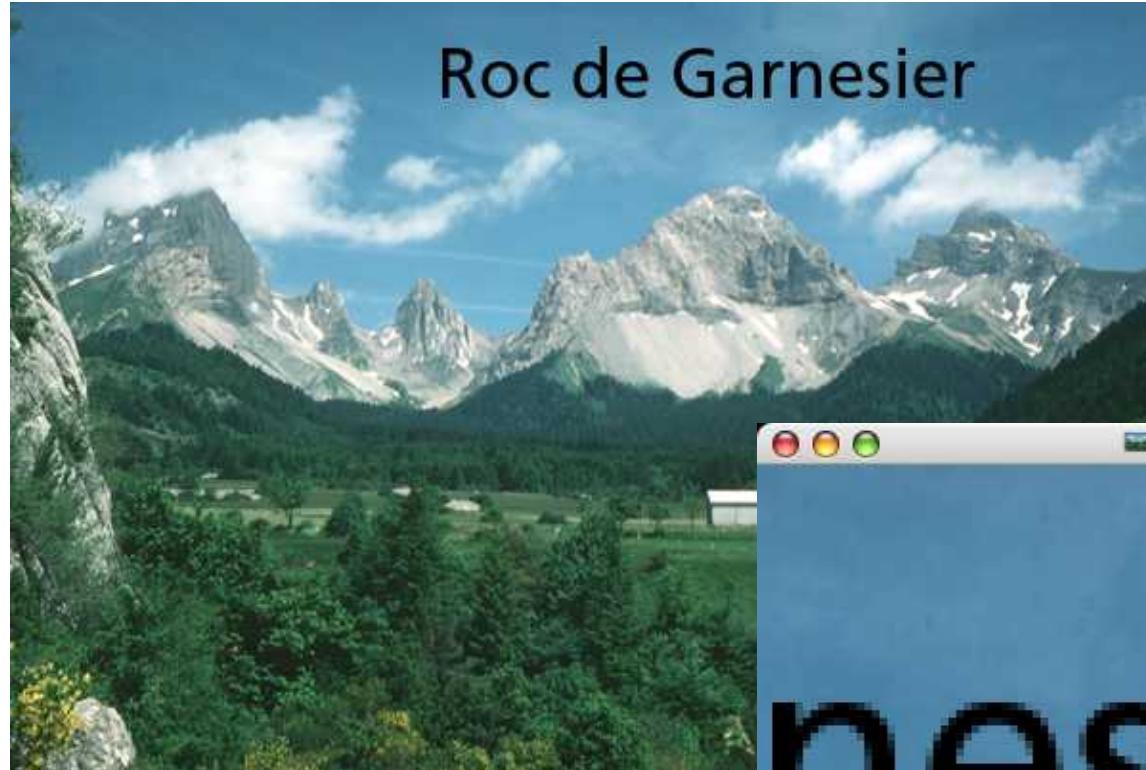
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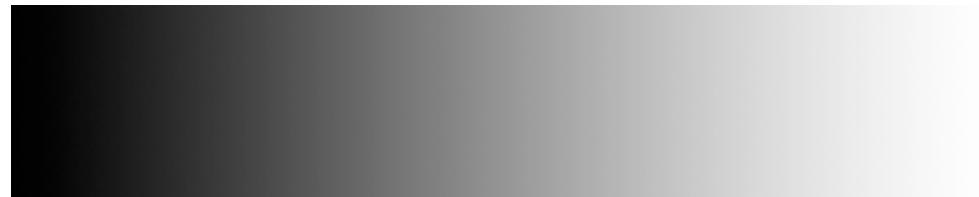
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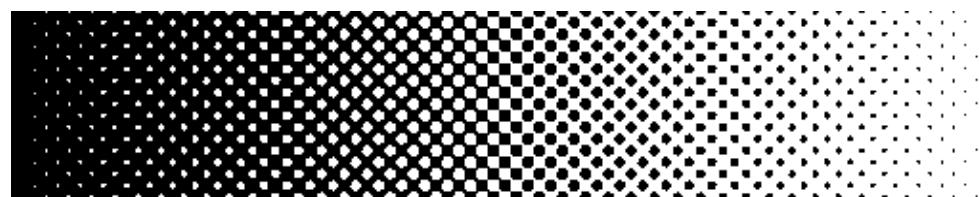
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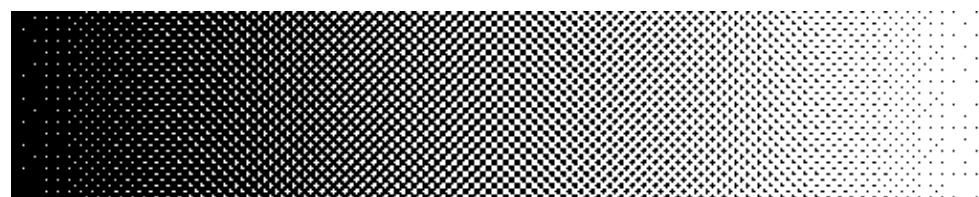
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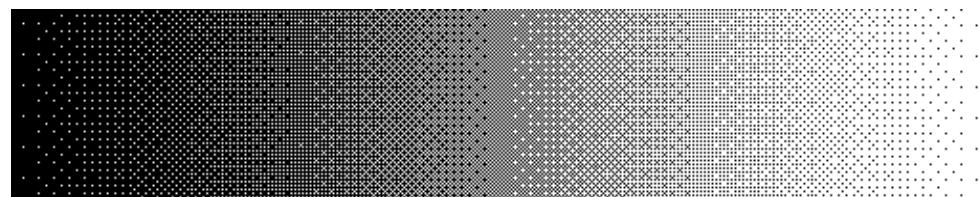
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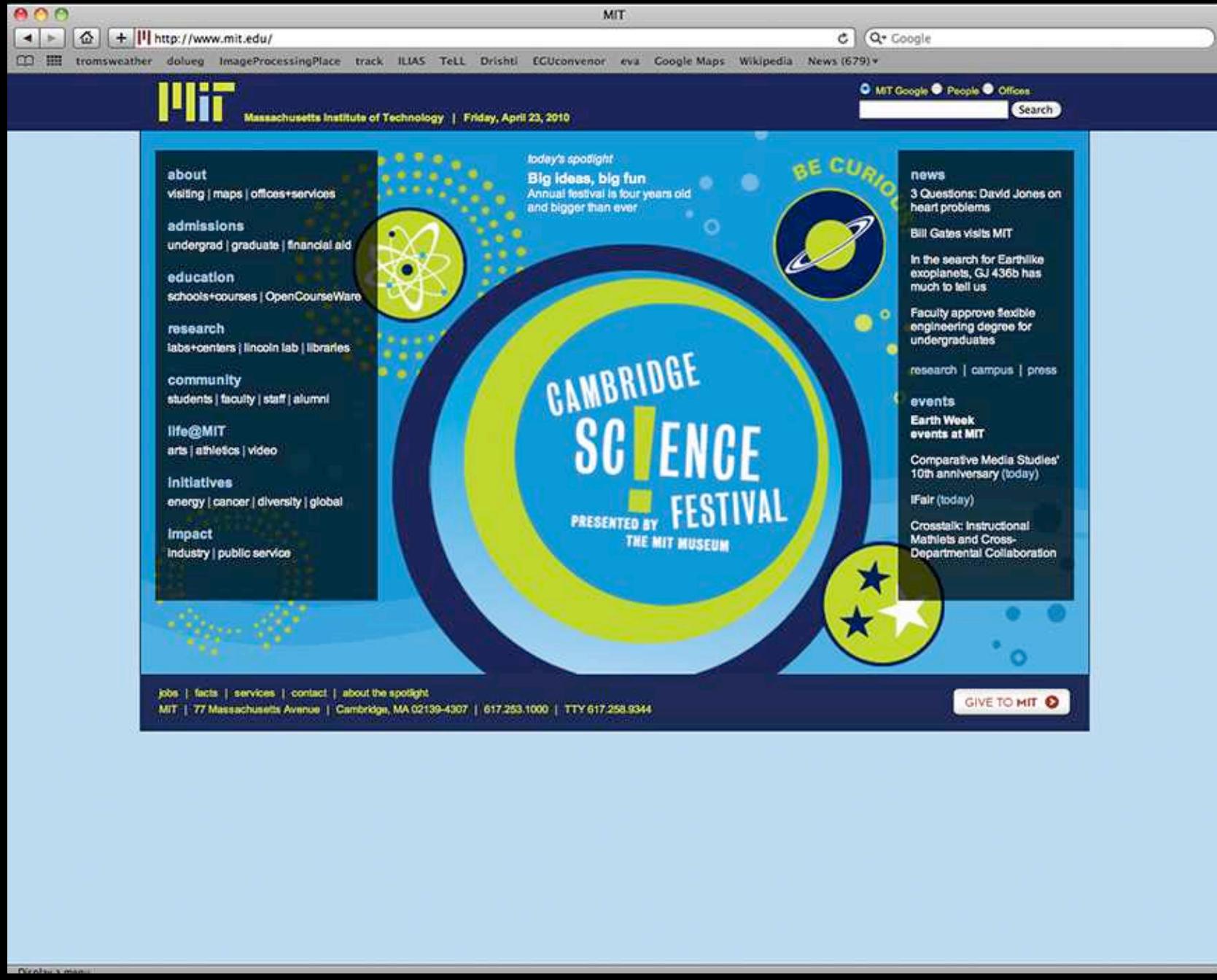
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 Prof. Dr. Jörn Leonhard of the University of Freiburg Awarded 2010 State Research Prize

Prof. Dr. Jörn Leonhard of the University of Freiburg has been awarded this year's 100,000 euro State Research Prize for his fundamental research. Jörn Leonhard has served as professor at the Department of History of the University of Freiburg since 2006 and as Director of the School of History at the Freiburg Institute for Advanced Studies since 2007.
» more [de]

News Events

 Call for University Teaching Awards

The University of Freiburg will confer the University Teaching Award for outstanding achievements in teaching for the third time this year. The award is worth a total of 25,000 euros and will be conferred parallel to the State Teaching Award and the Special Award for Commitment to Students. Nominations must be submitted by 9 May 2010.
» more [de]

 Call to Vote in the 2010 Staff Council Elections

On 27 and 28 April 2010 the University of Freiburg will hold elections for the university-wide Staff Council, the State Employee Council in Stuttgart, and the Youth and Apprentice Representative. Rector Prof. Dr. Hans-Jochen Schiewer has appealed to all employees to make use of their right to vote.
» more [de]

 Student Newsletter 4/2010 is Out

The newsletter, now in the university's new corporate design and with a new format, provides information on all that is important, interesting, and new at the university. The topics of the current issue include: "What's Coming Up?", "heads & hands 2010," "Student Involvement."
» more [de]

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Beispiel

ETH Zürich – Eidgenössische Technische Hochschule Zürich

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ETH ZÜRICH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

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Neue Materialien
Universum

ETH Life - das Online-Magazin

20 Mio. Franken für Fellowship-Programm

 Der Unternehmer und Mäzen Branco Weiss überträgt sein weltweit einmaliges Förderprogramm «Society in Science» zum 1. Januar 2011 der ETH Zürich. Damit verbunden ist eine Schenkung von 20 Millionen Franken, die dem wissenschaftlichen Nachwuchs zu Gute kommt und die Zukunft des Programms sichert. [23.04.10] [Mehr](#)

Ein Archiv der Steine

 Der Erdwissenschaftler Francis de Quervain kannte die Gesteinsvielfalt der Schweiz wie kaum ein anderer. Neben seiner wissenschaftlichen Tätigkeit beschrieb er tausende von historischen Bauobjekten aus Stein auf Karteikarten. Diese sind nun online einsehbar. [23.04.10] [Mehr](#)

Im Elektroauto nach Silverstone

 Der Name «furka» steht für Höchstleistungen: Schneller, leichter, dynamischer soll das neue Rennfahrzeug des Akademischen Motorsportvereins Zürich sein. Erstmals tritt der AMZ in der Elektroklasse der «Formula Student» an. Im Juli fährt «furka» in Silverstone. [23.04.10] [Mehr](#)

ETH Life - weitere Artikel

Veranstaltungen

Veranstaltungskalender
Tagungen, öffentliche Vorlesungen, Ausstellungen, Konzerte und sonstige Veranstaltungen an der ETH Zürich oder im ETH-Bereich

Hinweise auf ausgewählte Veranstaltungen

Treffpunkt Science City: Das kluge Haus
Die Treffpunkt-Veranstaltung am Sonntag, dem 25. April, dreht sich um klimafreundliche Gebäude der Zukunft. [Mehr](#)

Kunst am Montagmittag
Die Graphische Sammlung widmet die Führung am 26. April der Druckgraphik der Impressionisten Degas und Pissarro. [Mehr](#)

Die Stadt Zürich auf dem Weg zur 2000-Watt-Gesellschaft
Aktuelle Probleme der Energietechnik am Beispiel der 2000-Watt-Gesellschaft stehen am Dienstag, dem 27. April, im Mittelpunkt des Kolloquiums am Departement für Informationstechnologie und Elektrotechnik. [Mehr](#)

Favoriten
Bitte wählen

Telefonbuch: Name Vornam [go](#)

Jahresbericht 2009
 Der Jahresbericht 2009 der ETH Zürich zum Download

Einführungs-, Antritts- und Abschiedsvorlesungen

MICHELE ARNABOLDI 
31.3.– 29.4.2010

Beispiel

EPFL | Ecole Polytechnique Fédérale de Lausanne

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EPFL Ecole Polytechnique Fédérale de Lausanne

FUTURS ÉTUDIANTS ÉTUDIANTS CHERCHEURS COLLABORATEURS ENTREPRISES MEDIAS Taille du texte: A A A

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE français | english

Faculté ENAC architecture génie civil environnement Faculté SB chimie mathématiques physique Faculté STI électricité & électronique mécanique microtechnique matériaux Faculté IBC informatique systèmes de communication Faculté SV sciences de la vie CDM management de la technologie Ingénierie financière CDH sciences humaines et sociales

Pôles de recherches nationaux

Le conseiller fédéral Didier Burkhalter a présenté huit nouveaux pôles de recherche nationaux. Quatre d'entre eux seront pilotés depuis Lausanne et Genève.

Scala, le langage de programmation utilisé par Twitter, LinkedIn, Foursquare, pourrait remettre en cause la position de Java dans le monde du web et des applications commerciales.

Dépression et troubles anxieux - une molécule protectrice, dont la fonction dans le cerveau a été mise à jour par une équipe de l'EPFL, pourrait déboucher sur de nouveaux traitements.

ÉVÉNEMENTS > les actualités

26 février-30 mai Timber Project - Nouvelles formes d'architectures en bois (organisé par Archizoom et IBOIS).

29-30 mai Objectif Sciences - Journées portes ouvertes gratuites de l'EPFL, 14 pôles à découvrir et plus de 300 animations!

> le mémento

L'ÉCOLE

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UZH – Universität Zürich – Public Portal

http://www.uzh.ch/index.html

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- für UZH-Mitarbeitende
- für UZH-Alumni
- für Medien

Die Universität Zürich

News

- Universität Zürich – Neuste Medienmitteilungen
 - 23.04.2010 Die UZH – das Zentrum der universitären Medizin
- UZH News – Alle Artikel
 - Tag des Buches: E-Books – die Zukunft des Lesens?
 - 23. April 2010 ist der «Welttag des Buches». Gerade in der Wissenschaft ist das elektronische Buch auf dem Vormarsch. Für das vertiefte Lernen und ästhetische Lesen wird uns aber das gedruckte Buch erhalten bleiben, sind unsere Gastautoren der Zentralbibliothek Zürich überzeugt.
 - Mehr...
 - Stiftung für Studentisches Wohnen: Zimmer für 550 Franken
 - In Zürich-Affoltern ist heute Baubeginn für zwei neue Wohnhäuser der Stiftung für Studentisches Wohnen. Rund 180 Studierende werden dort ab September 2011 in Wohngemeinschaften leben.
 - Mehr...

Hinweise

 - Universität Zürich - Agenda
 - 23.4.2010, 13:00: Ausstellungsführung «Spur im Treibsand»
 - 24.4.2010, 09:00: alki-Wallfahrt in den Raft
 - 24.4.2010, 09:30: Vergessen - Leerzeichen des Denkens?
 - 25.4.2010, 11:30: Öffentliche Führung durch die Sonderausstellung «Massenaussterben und Evolution – Katastrophen als Verhängnis und Chance für Lebewesen seit Milliarden von Jahren: Einblick in die Präparationstechnik (nur für Erwachsene geeignet)

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Dies academicus Samstag, 24. April 2010

Offizielle Ringvorlesungen

Beispiel

Universität Bern – Volluniversität | Bachelor | Master | PhD | Forschung

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Offenlichkeit

Neue Lese-Erlebnisse dank neuer Medien

Die Medienbranche durchläuft eine rasante Entwicklung. Was dies für das Buch bedeutet, und wie sich Lese-Erlebnisse verändern, thematisiert Medienexperte Matthias Zehnder zum Welttag des Buches. Die öffentliche Veranstaltung der Universitätsbibliothek findet am 23. April um 12.30 Uhr im Vortragssaal der Zentralbibliothek an der Münsterstrasse 63 statt. >>

Intern

(Uni-)Sport, Spiel und Spass

Das Gehirn mittrainieren, Selbstvertrauen entwickeln oder sich entspannen: Alle Universitätsangehörigen sind am 29. April ab 16.45 Uhr eingeladen, die vielfältigen positiven Effekte des Sporttreibens am eigenen Leib zu erfahren. «Unisport special» bietet kostenlos und ohne Voranmeldung ein etwas anderes Programm an. >>

Webzeitung «uniaktuell»

In wenigen Schritten rund um die Erde

Der Botanische Garten (BOGA) feiert seinen 150. Geburtstag und eröffnet die Jubiläums-Feierlichkeiten mit einer Sonderausstellung zum Thema «Lebensräume – Vielfalt lokal bis global». Berns Hausgarten präsentiert Gross und Klein die unterschiedlichsten Lebensräume unserer Erde im Kleinformat. >>

Neue Spinne erhält Namen aus Comic

Der Fund passt ins internationale Jahr der Biodiversität: Holger Frick vom Zoologischen Institut der Uni Bern und des Naturhistorischen Museums Bern entdeckte eine seltene neue Spinnenart in den Schweizer Alpen. Speziell ist auch der Name. >>

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u^b

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Psychologie et sciences de l'éducation

Traduction et interprétation

Centres, instituts et programmes plurifacultaires

Bas-relief de la frise du Parthénon British Museum, Londres.

Quelle déontologie pour les musées?

Dans le cadre de la maîtrise en conservation du patrimoine et muséologie des beaux-arts, les Universités de Genève, Lausanne et Fribourg organisent, le 27 avril, une journée d'étude consacrée à la question de la déontologie des musées, en partenariat avec les Musées d'art et d'histoire de Genève et le Centre universitaire du droit de l'art. Quelles règles les musées doivent-ils respecter dans les cas de trafics illicites, de spoliations ou de fouilles clandestines?

Lire la suite >>

À la Une

- ↳ Trois Pôles de recherche nationaux pour l'UNIGE
- ↳ 1500 billets offerts aux étudiants pour le Salon du livre
- ↳ L'œil ému: regarder, penser, vivre les œuvres d'art
- ↳ Remise en cause des modèles de formation planétaire
- ↳ Colloque international "Témoignage et survivance"
- ↳ Le Palais des Nations accueille des étudiants en droit international humanitaire

Événements

- ↳ L'Orient dans les cultes gréco-romains: lieu géographique ou image de l'Ailleurs?
- ↳ Journées de la recherche en génétique
- ↳ Les archives d'entreprises en Suisse: trésors pour les historiens ou déchets?

Agenda complet >>

LE RU swissuniversity.ch International Forum of Public Universities

© Université de Genève 20 avril 2010

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http://www.unil.ch/index.html

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Unil
UNIL | Université de Lausanne

EDUCATION RECHERCHE (le savoir vivant)





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l'agenda
des événements.
Conférences,
colloques
et rencontres...

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Université de Neuchâtel unine

actualités

Laurent Frézard lauréat du prestigieux Prix AIFI - NYSE Euronext 2009 pour sa thèse de doctorat en finance

Le marché des footballeurs sous la loupe.

Vias, Frontaliers, Réfugiés, Islam, Infirmières, Footballeurs... les chercheurs neuchâtelois se penchent sur les migrations contemporaines

trait d'UNION, la newsletter de l'Unine

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mandat d'objectifs 2009-2012 (pdf)

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Beispiel

Universität Basel – Willkommen

De Eng | SUCHE DOKUMENTE SITEMAP KONTAKT NEWSLETTER

AKTUELL UNIVERSITÄT STUDIUM FORSCHUNG WEITERBILDUNG UNI-LEBEN UNI-INTERN

The screenshot shows the homepage of the University of Basel (www.unibas.ch). The top navigation bar includes links for De Eng, SUCHE DOKUMENTE, SITEMAP, KONTAKT, and NEWSLETTER. Below the navigation is a horizontal menu with links for AKTUELL, UNIVERSITÄT, STUDIUM, FORSCHUNG, WEITERBILDUNG, UNI-LEBEN, and UNI-INTERN. A banner at the top features several images of university students and staff. On the left, there's a sidebar with links for 'Alle Organisationseinheiten der Universität Basel >' and 'Fakultäten'. Below this is a section titled 'EINSTIEGSSEITEN FÜR...' with links for various groups like Studieninteressierte, Studierende/Doktorierende, Forschende, etc. A large '550 JAHRE' logo is prominently displayed. The main content area has sections for 'News' (with articles for 23.04.2010) and 'Veranstaltungen' (with events for 23.04.2010). A search bar is located in the top right, and a 'Quick Links' sidebar on the right lists various university services. The footer contains copyright information and a date of 23/04/2010.

Universität Basel – Willkommen

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AKTUELL UNIVERSITÄT STUDIUM FORSCHUNG WEITERBILDUNG UNI-LEBEN UNI-INTERN

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23.04.2010 Latein-Sommerschule 2010 der Universität Basel mehr...

23.04.2010 Basler Münster im Zeichen der Universität Basel mehr...

22.04.2010 Neue Argovia-Professur der Universität Basel am Kantonsspital Aarau mehr...

alle News >

Veranstaltungen

550 Jahre Universität Basel Jubiläumsprogramm >

23.04.2010 12.15 Alien, Marx & Co.: Slavoj Zizek im Porträt mehr...

23.04.2010 15.15 The diamond approach to quantum spintronics mehr...

23.04.2010 19.00 Der freie Wille aus neurowissenschaftlicher Sicht: Mythos, Fiktion oder Tatsache? mehr...

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- > Marktplatz

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23/04/2010

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Biozentrum, University of Basel, Switzerland, Welcome :::

http://www.biozentrum.unibas.ch/

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Universität Basel



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Friday, April 23, 2010

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Latest publications

Vascular Morphogenesis in the Zebrafish Embryo. *Dev Biol*, 341.
A liquid chromatography-coupled tandem mass spectrometry method for quantitation of cyclic di-guanosine monophosphate. *J Microbiol Methods*.
Second messenger mediated adjustment of bacterial swimming velocity. *Cell*, 141(April 2).
More

Network

D-BSSE
Department of Biomedicine
FMI
Swiss Institute of Bioinformatics
Swiss Nanoscience Institute
Swiss National Science Foundation
Swiss Tropical and

Welcome to the Website of the Biozentrum, University of Basel, Switzerland

Prestigious Award for Biozentrum Researchers
A publication by Karl G. Hofbauer's group from the Biozentrum, University of Basel, will receive The Endocrine Society and Pfizer, Inc. International Award for Excellence in Published Clinical Research. [Whole Text](#)

Boost for stem cell research
Neural stem cells have the remarkable ability to make the enormous numbers of nervous cells in the brain. However, they can become abnormal, and as a result turn into a deadly brain tumor.. [Whole Text](#)

In honor of Hans-Peter Hauri
Hans-Peter Hauri, Professor for Cell Biology and former Dean of the Faculty of Science at the University of Basel, gave his farewell lecture on March 12, 2010... [Whole Text](#)

A molecular brake for the bacterial flagellar nano-motor
Biozentrum researchers have now discovered that *Escherichia coli* bacteria harness a sophisticated chemosensory and signal transduction machinery... [Whole Text](#)

Molecular Basis for *Pseudomonas Aeruginosa* Chronic Cystic Fibrosis Infections
Biozentrum researchers identified Small Colony Variants of *Pseudomonas aeruginosa* to be a hallmark of chronic infection in cystic fibrosis patients... [Whole Text](#)

BINDER Innovation Prize for Anne Spang
Anne Spang will be presented with the BINDER Innovation Prize at the Annual Meeting of the Society for Cell Biology (DGZ), on 10th March, 2010... [Whole Text](#)

The Biozentrum – Best Places to Work for Postdocs 2010
In its March issue, the American magazine *The Scientist* published the results of its annual survey of Best Places to Work for Postdocs 2010... [Whole Text](#)

Obituary for Marco Faustmann
The Biozentrum is mourning the sudden death of one of its students, Marco Faustmann, who died on February 20, 2010 at the young age of 29, as a result of a tragic accident... [Whole Text](#)

Research



International PhD Program


Opportunities for Excellence
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Seminars & Events

Registration is open now
June 24th, 2010
June 25th, 2010
8th (BC)2 Basel Computational Biology Conference [Details](#)

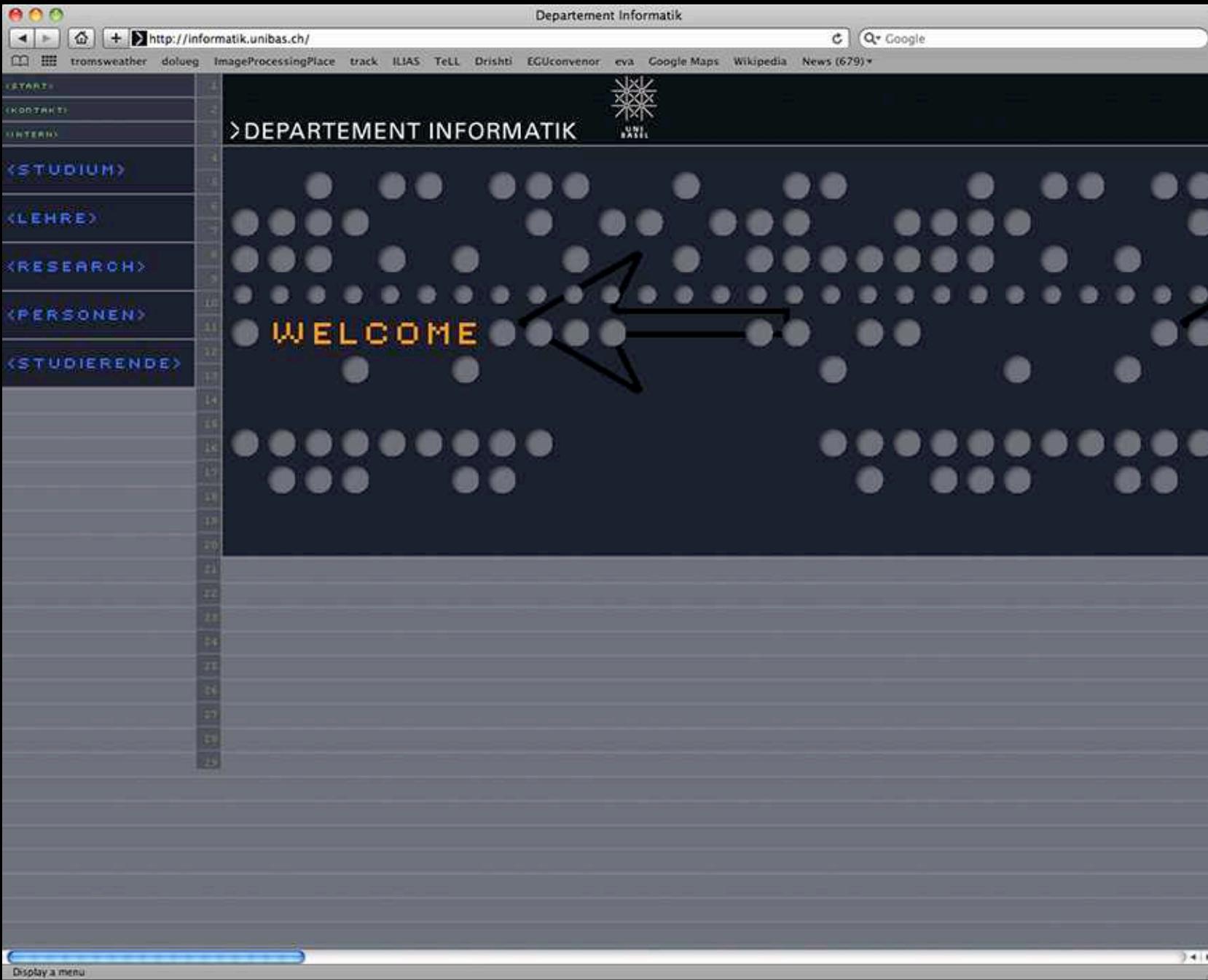
April 26th, 2010
Beyond the Resolution Limit: The use of prior knowledge in protein structure determination. [Details](#)

April 26th, 2010
Our complicated neighbourhood with *Staphylococcus aureus* [Details](#)

April 27th, 2010
Protein Kinases as Drug Targets: Potentials and Limitations. [Details](#)

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Departement Mathematik Universität Basel

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Basel Universität – Departement Physik – Start

23.4.2010

DEPARTAMENT PHYSIK

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Anstehende Kolloquien und Seminare

Kernstruktur-, Elementarteilchen- und Astrophysik Seminar
Do 22 Apr, 17:15, Lect. Hall 2
D. Blaschke, Univ. Wrocław (Polen)
"Towards a microscopic equation of state for astrophysical applications"
(hosted by M. Liebendorfer)

Kolloquium
Fr 23 Apr, 15:15, Lect. Hall 1
Jörg Wrachtrup, Universität Stuttgart
"The diamond approach to quantum spintronics"
(host: D. Zumbühl)

Kondensierte Materie Seminar
Mo 26 Apr, 16:15, Lect. Hall 1
Fabio Pustolesi, IUPMC Grenoble
"Resonant magneto-conductance of a suspended carbon nanotube quantum dot"
(host: M. Poggio)

News & Veranstaltungen

PhD defense: Serpil Boz, Universität Basel
"Controlling intermolecular interactions at surfaces through chemical ligands: supramolecular aggregation, covalent coupling and chirality at reduced dimensions"
Friday, 7th May 2010, 13:30, Lecture hall 1, Foyer

Kurze Geschichte des Departements Physik der Universität Basel
2010 feiert die Universität Basel ihr 550-jähriges Jubiläum. Die zu dieser Gelegenheit verfasste kurze Geschichte des Departements Physik kann hier heruntergeladen werden.

Vorkurs Mathematik an der Universität Basel, 6.-10. September 2010
Das Mathematische Institut der Universität Basel bietet erneut einen intensiven einwöchigen Vorkurs Mathematik an. Dieser Vorkurs dient zur Vorbereitung des Studiums und erlaubt es, Mathematikkenntnisse aus der Schule aufzufrischen und allfällige Lücken zu erkennen. Er richtet sich an alle Studienanfängerinnen und Studienanfänger der Philosophisch-Naturwissenschaftlichen Fakultät. Weitere Angaben zum Kurs finden Sie auf folgender Webseite: <http://www.math.unibas.ch/vorkurs/>

Semesterdaten:
Frühjahrsemester 2010: 1.3.2010 - 4.6.2010
Herbstsemester 2010: 20.9.2009 - 23.12.2010

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SNI
Swiss Nanoscience Institute

QCI
Basel Center for Quantum Computation and Quantum Coherence

NANO
NCCR Nanoscale Science

Intern. Graduiertenkolleg Basel-Graz-Tübingen: Hadronen im Vakuum, Kernen und Sternen

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Department of Pharmaceutical Sciences – University of Basel – Switzerland

http://www.pharma.unibas.ch/

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DEPARTMENT OF PHARMACEUTICAL SCIENCES UNIVERSITY OF BASEL



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News

9th Swiss Course on Medicinal Chemistry: October 10–15, 2010 in Leysin

→ First announcement
→ More information

Last update: April 16, 2010

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http://www.chemie.unibas.ch/index.php

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UNIVERSITY OF BASEL

Department of Chemistry 

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ORGANIZATION RESEARCH STUDY CHEMISTRY ONLINE INTRANET VISITORS SEARCH search

Upcoming seminars:

26. April 2010 at 14:15:
Physikalische Chemie, Klingelbergstr. 80, grosser Hörsaal, PC 3.10
Heilbronner-Hückel Lecture: About Free Electrons, Molecules, Ions, and Processes between them (PC)
Prof. Dr. J. Trog, Institute of Physical Chemistry, University of Göttingen, Germany

26. April 2010 at 17:30:
Organische Chemie, St. Johanns-Ring 19, kleiner Hörsaal OC
Redesign of enantioselective borohydride reductions catalyzed by optically active cobalt complexes (OC/3ème cycle)
Prof. Dr. Tohru Yamada, Keio University, Yokohama, Japan

30. April 2010 at 14:15:
Organische Chemie, St. Johanns-Ring 19, kleiner Hörsaal OC (OC)
Prof. Dr. Tamejiro Hiyama, Kyoto University, Japan



Display a menu for "http://550.unibas.ch/Sonderbriefmarke-zum-550-Jahr-Jubilaeum-der-Universitaet-Bas.74.0.html"

Beispiel

Departement Umweltwissenschaften: Home
<http://duw.unibas.ch/> RSS Google

tromsweather dolueg ImageProcessingPlace track ILIAS TeLL Drishti EGUconvenor eva Google Maps Wikipedia News (730) ▾

UNIVERSITÄT BASEL

Departement Umweltwissenschaften

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NEWS

18.04.2010 Impressionen vom DUW-Stand am Markt des Wissens von Sonntag, 18. April 2010 unter dem Menupunkt Fotos [\[mehr\]](#)

14.03.2010 Die Masterfeier Biologie 2010 findet am 6. November 2010 statt. [\[mehr\]](#)



BEREICHE DES DEPARTEMENTS UMWELTWISSENSCHAFTEN

Integrative Biologie
Geowissenschaften
Mensch-Gesellschaft-Umwelt
Prähistorische und Naturwissenschaftliche Archäologie

VERANSTALTUNGEN

03.05.2010 18:15 bis 19:15 - IPNA-Kolloquium: Forschungskolloquium "Kränzl!" IPNA und UFG [\[mehr\]](#)

05.05.2010 17:15 bis 18:15 - MCR Aktuell: Hyper Swiss Net [\[mehr\]](#)

QUICKLINKS

:: Webmail Login
:: Personen UNI Basel
:: Vorlesungsverzeichnis UNI Basel
:: Dekanat Phil.-Nat. Fakultät
:: Campus Studium & Lehre
:: EVA
:: Web-Kolloquium
:: Forschungsdatenbank Uni Basel

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Impressum

Umweltwissenschaften

Beispiel

University of Basel • Institute of Botany • Sect. Plant Ecology

<http://pages.unibas.ch/botschoen/index.html>

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Institute of Botany
Sect. Plant Ecology

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Field courses
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Kolloquium
Abendkolloquium

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Topics
Scholarship

References
Archive
Links

Institute of Botany Sect. Plant Ecology



Botanisches Institut der Universität Basel
Schönbeinstrasse 6, CH - 4056 Basel (Switzerland)
Tel. ++41 (0)61 267 35 00, Fax ++41 (0)61 267 35 04

Sect. Plant Ecology [this website] Sect. Plant Physiology Botanical Garden
Schönbeinstr. 6, 4056 Basel Hebelstr. 1, 4051 Basel Spalengraben 8, 4051 Basel
www.unibas.ch/botschoen plantbiology.unibas.ch www.unibas.ch/botgarten



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Beispiel

Evolutionary Biology | Universität Basel

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University Basel
Phil.-Natur. Fakultät
Zoologisches Institut

EvolutionaryBiology

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Print view

Kurse Frühjahrssemester 2010

Contact/ Location W.D. Hamilton

Evolutionary Biology at the Zoological Institute

The group for evolutionary biology at the Zoological Institute of the University of Basel promotes higher education and research in organismic biology, in particular the fields of evolution, evolutionary ecology and behavioral ecology. It complements existing strengths in life-sciences at the University of Basel. We offer courses covering different aspects of evolutionary biology, including evolutionary ecology, evolutionary genetics, molecular evolution and behavioral ecology. Current research interests of members of the group include population genetics, host-parasite interactions, life-history evolution, the evolution of the immune system, the evolution of animal diversity, parent-offspring interactions, sex allocation and sexual conflict in hermaphrodites. The organisms studied in our experimental work are water fleas (*Daphnia*) including their various parasites and pathogens, earwigs, flatworms, and cichlid fishes. Our work is strongly supported with bioinformatics and mathematical modeling.



Participants of the block course in Zoology and Evolutionary Biology, April 2010.
(click picture for enlarged version)

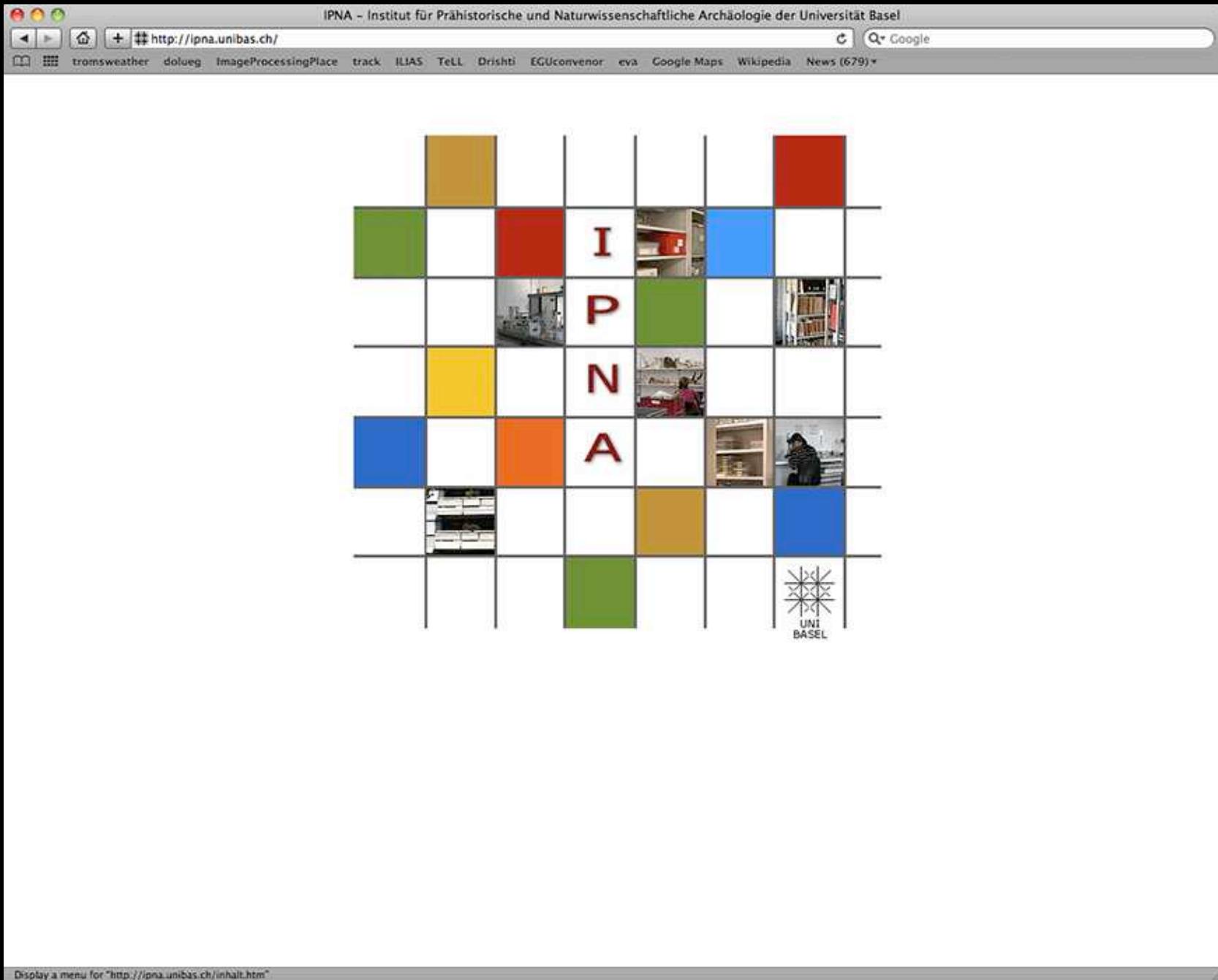
back to top

Universität Basel, Zoologisches Institut
Evolutionobiologie
Vesaligasse 1
CH-4051 Basel
Switzerland

Get Firefox XHTML CSS
last modified: 12 April 2010
[Impressum](#)

Display a menu

Beispiel



Display a menu for "http://ipna.unibas.ch/inhalt.htm"

Beispiel

The screenshot shows the homepage of the MGU (Mensch - Gesellschaft - Umwelt) website. The header includes the title 'MGU - home', a navigation bar with links like 'tromsweather', 'douleg', 'ImageProcessingPlace', 'track', 'ILIAS', 'TeLL', 'Drishti', 'EGUconvenor', 'eva', 'Google Maps', 'Wikipedia', and 'News (679)', and a search bar. The main content area features the MGU logo ('mgu') over a background image of green leaves. It includes sections for 'LEHRE', 'FORSCHUNG', and 'DIENSTLEISTUNGEN'. A sidebar on the left contains text about MGU's history, its current focus on aquatic ecology and toxicology, and its involvement in the Masterstudiengang in Sustainable Development (MSD). A footer at the bottom left lists links for 'Influenza A/H1N1: Informationen der Universität Basel', 'Offene Stellen bei MGU', and 'Jahresbericht 2007'. The footer also features the University of Basel logo.

MGU - home

tromsweather douleg ImageProcessingPlace track ILIAS TeLL Drishti EGUconvenor eva Google Maps Wikipedia News (679)

Programm MGU
Mensch - Gesellschaft - Umwelt

Vesalgasse 1
CH - 4051 Basel

Tel. +41 61 267 04 00
Fax +41 61 267 04 09

LEHRE FORSCHUNG DIENSTLEISTUNGEN

mgu

KONTAKT TEAM MGU

MGU: Mensch – Gesellschaft – Umwelt

MGU gestern...

Das einst 1992 nach einem Chemieunfall (1986) der Sandoz von einer basellandschaftlichen Stiftung getragene Programm Mensch-Gesellschaft-Umwelt (MGU) wurde per 2005 in die universitären Strukturen integriert. Das Angebot von MGU umfasste ein fächerübergreifendes, praxisorientiertes Programm zu Umweltfragen und Nachhaltigkeit in Lehre und Forschung, das in den bisherigen Lizentiat- oder Diplomstudiengängen als Neben- bzw. Wahlfach studiert werden konnte. Im Zuge der Bologna-Reform an der Universität Basel werden diese Studiengänge von den Bachelor- und Masterstudiengängen abgelöst, MGU als Neben- oder Wahlfach läuft aus.

Das von der ehemaligen Stiftung MGU getragene [»Forschungsprogramm«](#) wurde Mitte Mai 2006 offiziell abgeschlossen.

...und heute

In der Forschung konzentrieren wir uns bei MGU heute auf aquatische Ökologie und Ökotoxikologie. Zahlreiche Projekte sind interdisziplinär angelegt und laufen in Kooperation mit Instituten und Arbeitsgruppen im In- und Ausland.

Mit dem neuen spezialisierten [»Masterstudiengang in Sustainable Development MSD«](#) werden die Grundideen von MGU weiter entwickelt. Der MSD wird getragen von der Philosophisch-Naturwissenschaftlichen, der Philosophisch-Historischen und der Wirtschaftswissenschaftlichen Fakultät der Universität Basel. [»Mehr...«](#)

Weiterhin können im Rahmen des gesamtuniversitären [»Transfakultären Querschnittsprogramm TQ«](#), Programm [Nachhaltige Entwicklung](#) freie Kreditpunkte erworben werden (Leitung Prof. Patricia Holm).

Im Bereich Lehre wird Studierenden, die bisher MGU im Nebenfach belegt haben, der Abschluss nach alter Studienordnung gewährleistet (Leitung Prof. Paul Burger).

• [Influenza A/H1N1: Informationen der Universität Basel](#)

• [Offene Stellen bei MGU](#)

• [Jahresbericht 2007](#)

Display a menu

Beispiel: Geowissenschaften Basel

The screenshot shows a web browser window for the Department of Environmental Sciences at the University of Basel. The URL in the address bar is <http://pages.unibas.ch/environment/>. The page has a green header with the university's logo and navigation links for Home, Actual news, Staff, Study, Research, Publications, and Laboratory. Below the header, there is contact information for the Institute for Environmental Sciences, including an address in Benoullistrasse 30, Basel, Switzerland, and various phone numbers. It also lists opening times for the secretariat and provides an email address. A blue banner with a tree silhouette runs across the bottom of the page.

Departement Geowissenschaften Uni Basel – Institut für Umweltgeowissenschaften

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Institut für Umweltgeowissenschaften
Benoullistrasse 30
CH-4056 Basel
Schweiz
Tel.: ++41/61/267 04 80
Fax: ++41/61/267 04 79

Departement Umweltwissenschaften
Universität Basel

Offnungszeiten Sekretariat
Mo 13.00 - 16.30 Uhr
Mi 08.30 - 16.30 Uhr
Do 08.30 - 16.30 Uhr
sekretariat-ugw@unibas.ch

Direktnummern
Wegbeschreibung (E)

Site in ENGLISH

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Beispiel: Geowissenschaften Basel

Welcome to the MPI's homepage

http://titan.minpet.unibas.ch/minpet/

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Related Institutes:

- Swiss Gemmological Institute (SSEF)
- Geology and Paleontology
- Environmental Geosciences
- Biogeography
- Meteorology
- Physiogeography
- Human Geography
- Museum of Natural History

Fun: Matching Pairs (Minerals) - Basler Bausteine

Was ist Mineralogie?

View from the lake di Valleggia (upper Val Bavona) towards the south, with graphite structure

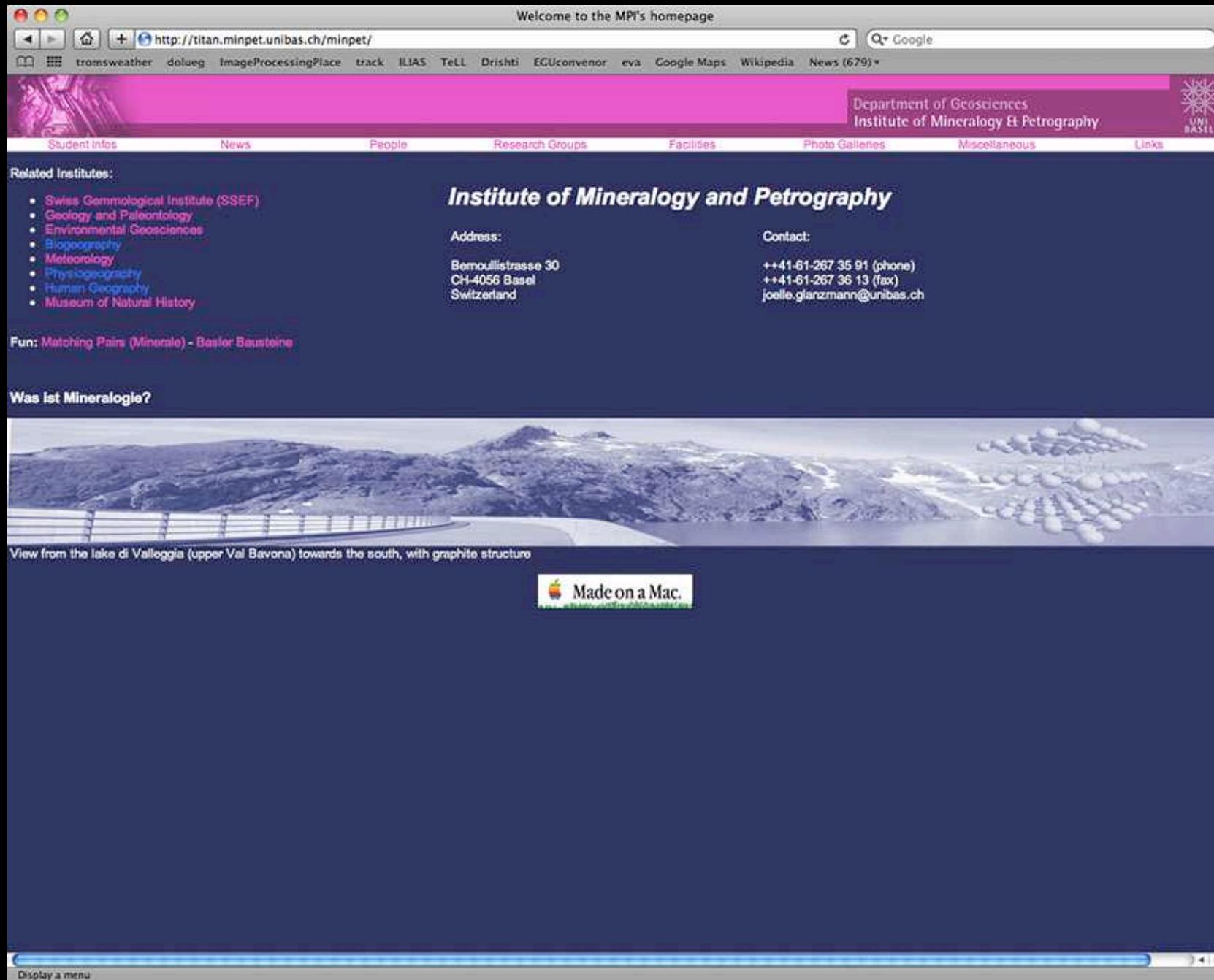
Made on a Mac.

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Department of Geosciences
Institute of Mineralogy & Petrography

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Beispiel: Geowissenschaften Basel

Institut für Meteorologie, Klimatologie und Fernerkundung – Departement Umweltwissenschaften der Universität Basel: Home

<http://www.mcr.unibas.ch/typo3/>

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Departement Umweltwissenschaften
Meteorologie, Klimatologie und Fernerkundung

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» Home

Aktuelles:

- 28.04.2010 MCR Aktuell Vortrag Turbulenter Austausch von Impuls, Energie und Wasserdampf in und über einem mediterranen Pflanzenbestand
- 30.04.2010 Exkursion Agrarklimatologie am Beispiel Kaiserstuhl
- 05.05.2010 MCR Aktuell Vortrag Hyper Swiss Net

Aktualisierte Seiten:

- Offene Arbeitsthemen [16.04.2010 17:05]
- Abgeschlossene Arbeiten [16.04.2010 16:01]
- Laufende Arbeiten [16.04.2010 16:01]
- Offene Arbeitsthemen [16.04.2010 15:59]
- Home [16.04.2010 13:56]

Institut für Meteorologie,
Klimatologie und Fernerkundung

Departement Umweltwissenschaften
Universität Basel

Adresse:
Klingelbergstrasse 27
CH-4056 Basel
Schweiz
[Lageplan](#) | [streetview](#)
ÖV: Linie 33 oder 30,
Bushaltestelle "Bernoullianum"

Kontakt:
Tel. +41 61 267 07 00
Fax +41 61 267 06 89
Mail: McrLab-Geogra@unibas.ch
Direkte Telefonnummern

Aktuelle Wetterdaten

Basel Klingelbergstr.
23.4.2010 11:30

Lufttemperatur	Aktuell	13.4	°C
	24h-Min.	6.3	°C
	24h-Max.	17.5	°C

Luftfeuchte	Aktuell	44	%
	24h-Min.	34	%
	24h-Max.	59	%

Globalstrahlung	Aktuell	604	W/m ²
	24h-Max.	835	W/m ²

Strahlungsbilanz	Aktuell	444	W/m ²
	24h-Min.	-92	W/m ²
	24h-Max.	634	W/m ²

Wind	Aktuell	2.3	m/s
	24h-Mittel	2.0	m/s
	24h-Spitze	3.8	m/s

Windrichtung: NNE

Luftdruck	Aktuell	977.8	hPa
	Tendenz	-0.15	hPa/h

Niederschlag	Aktuell	0.0	mm/h
	24h-Summe	0.0	mm/h

CO ₂	Aktuell	*	ppm
	24h-Mittel	*	ppm
	24h-Min.	*	ppm
	24h-Max.	*	ppm

Online since: 1. February 2010; Last content update: 16. April 2010
© 2008 Departement Umweltwissenschaften, Institut für Meteorologie, Klimatologie und Fernerkundung, Universität Basel.

Display a menu

Beispiel: Geowissenschaften Basel

The screenshot shows a web browser window for the Uni Basel Geographical Institute. The URL in the address bar is <http://pages.unibas.ch/geo/geographie/>. The page features the Uni Basel logo in the top left corner. A dark grey header bar contains the text "Departement Geowissenschaften" and "Geographisches Institut". Below this, there are two main sections: "Physiogeographic." on the left and "Humangeographic." on the right, each accompanied by a small image and a brief description.

Physiogeographic.
Geographisches Institut
Physiogeographie und
Umweltwandel

Humangeographic.
Geographisches Institut
Humangeographie
Stadt- und Regionalforschung

Display a menu

Beispiel: Geowissenschaften Basel

Institut für Biogeographie – Homepage

http://www.nlu.unibas.ch/

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Departement Umweltwissenschaften
Biogeographie

UNIBASIS

NLU	BIOGEOGRAPHIE:	INFO	MITARBEITER/INNEN	STUDIUM	FORSCHUNG	PUBLIKATIONEN
	NATURSCHUTZBIOLOGIE:	INFO	MITARBEITER/INNEN	STUDIUM	FORSCHUNG	PUBLIKATIONEN

Institut für Biogeographie
Departement Umweltwissenschaften
Universität Basel

English

Aktuelles und Änderungen zum Vorlesungsverzeichnis des laufenden Semesters

Kommission für Reisestipendien der SCNAT+

Latest Biogeography Research News:
Gradual adaptation toward a range-expansion phenotype initiated the global radiation of toads
in *Science* 327, 5 Feb 2010, pp.679-682

St. Johanns-Vorstadt 10
CH-4056 Basel
Schweiz
Tel: +41-61-267 08 00
Fax: +41-61-267 08 01

Öffnungszeiten des Sekretariates
Mo: nachmittags
Di: ganzer Tag
Do: 11.30 - 12.30
Fr: vormittags

Direktnummern

Lageplan
St. Johanns-Vorstadt 10

Lageplan
Klingelbergstrasse 27

Was ist Biogeographie?

Paussinae-Studien

Quellen in der Region Basel - biogeographische Lehrpfade







Ökologie und Biogeographie der afrotropischen Biota und ihrer Lebensräume sind Schwerpunkte unserer Forschung.

Display a menu

Beispiel: Geowissenschaften Basel

The screenshot shows a web browser window for the URL <http://www.conservation.unibas.ch/>. The page title is "Conservation Biology (University of Basel)". The header features a yellow banner with the text "Department of Environmental Sciences" and "Conservation Biology". A logo of a sunburst with the word "BASEL" is on the right. Below the banner, there's a navigation menu with links for DE, EN, CONSERVATION BIOLOGY (NEWS), BIogeography (NEWS), TEAM, TEACHING, RESEARCH, and PUBLICATIONS. On the left, there's a sidebar with contact information: "Section of Conservation Biology, University of Basel, St. Johanns-Vorstadt 10, CH-4056 Basel, Switzerland, Tel. +41 61 267 08 31, Fax +41 61 267 08 32, map.". The main content area has a green background with a banner featuring a rhinoceros and a cityscape. On the right, there's a section for "New book" showing a red book titled "Biodiversität" by Hans-Wilhelm Hennig, published by UTB Profilia. Another section for "Evolution MegaLab" is also present.

Beispiel: Geowissenschaften Basel

Basel University - Geology and Paleontology

http://pages.unibas.ch/earth/

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Department of Environmental Sciences
Institute of Geology & Paleontology

HOME STUDYING GEOSCIENCES CURRENT SEMESTER GEO @ BERNOLLIANUM

Group Links:

Institut für Geologie und Paläontologie
Departement Umweltwissenschaften
Universität Basel

Adresse: Bernoullistrasse 32 CH-4056 Basel Schweiz
Sekretariat: ++41-61-267 35 91 (Telefon)
++41-61-267 36 13 (Fax)
e-mail

Applied Geology
Paleontology
Rock Deformation
Sedimentology

Tectonics
EUCOR URGENT project

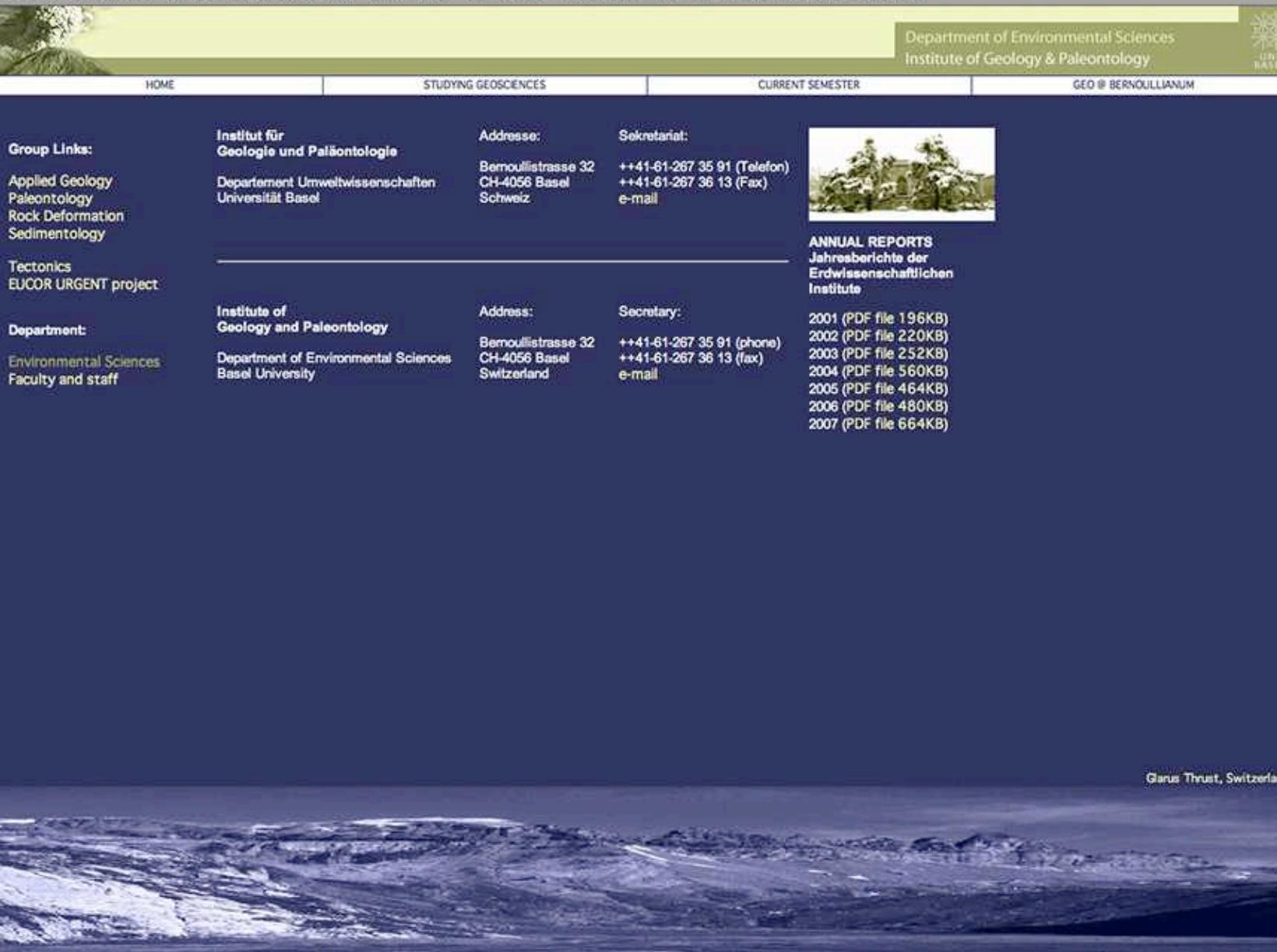
Department:

Institute of Geology and Paleontology
Department of Environmental Sciences
Basel University

Address: Bernoullistrasse 32 CH-4056 Basel Switzerland
Secretary: ++41-61-267 35 91 (phone)
++41-61-267 36 13 (fax)
e-mail

ANNUAL REPORTS
Jahresberichte der Erdwissenschaftlichen Institute

2001 (PDF file 196KB)
2002 (PDF file 220KB)
2003 (PDF file 252KB)
2004 (PDF file 560KB)
2005 (PDF file 464KB)
2006 (PDF file 480KB)
2007 (PDF file 664KB)



Glarus Thrust, Switzerland.

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Beispiel: Geowissenschaften Bern

home universität > philosophisch-naturwissenschaftliche fakultät > institut für geologie
Studium | Campus | Bibliotheken | Forschung | Organisation | Arbeiten an der Uni | Öffentlichkeit

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Institut für Geologie

Willkommen am Institut für Geologie

» **Vulkan legt Europa lahm**
BZ-Talk, Donnerstag 22. April, ab 19:30 stündlich
(TeleBärn)
Die Vulkan-Aschewolke aus Island hat Europa lähmgelegt.
Drohen weitere Ausbrüche? Wie setzt sich die Wölkchen zusammen?
Was ist das strenge Flugverbot nötig?

Gäste:
- Martin Engi, Professor Universität Bern,
Institut für Geologie
- Max Ugricht, Aviatikexperte, Pilot,
Chefredaktor Cockpit

Moderation:
- Stefan Geissbühler, Newschef BZ

Jeden Donnerstag um 19:30 Uhr
im Studententag auf TeleBärn.

BZ | Talk

Vorschau auf die Sendung des 22.4.2010
Vulkan legt Europa lahm

» **Vortrag: Neue Eruptionen auf Island: Mechanismen und Auswirkungen**
Wann: **29. April 2010,**
19:30 Uhr
Wo: Universität Bern,
Hauptgebäude
Hochschulstrasse 4,
3012 Bern (Lageplan)
Wer: Prof. Martin Engi

» Veranstaltungshinweis der
Naturforschenden
Gesellschaft in Bern
» Präsentation auch am
29.5.2010

» **Festkolloquium** zum 60. Geburtstag
von Prof. Martin Engi mit spannenden
Vorträgen
23. April 2010, 15:00,
Universität Bern, UniS,
Hörsaal A003
Schanzeneckstrasse 1, 3012 Bern

» **Einweihung Geozentrum Burgdorf**
(28.4.2010):
Labor für Geotechnik und Ingenieurgeologie.
Zusammenarbeit der Berner Fachhochschule Architektur Holz und Bau, Kompetenzzentrum Naturereignisse und Geotechnik (Verantwortlicher: Martin Stoltz) und
Institut für Geologie der Universität Bern, Forschungsgruppe Quartär- und Umweltgeologie (Verantwortlicher: (Prof. Christian Schlüchter)

-Programm der Einweihung

u^b

b
UNIVERSITÄT
BERN

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- » Welcome guide
- » Login Webmail
- » Offene Stelle (PhD)

INQUA Bern 2011



Deadlines:

- » **December, 2009:** Official excursion programme
- » **January 1 – June 30, 2010:** Submission of proposals for sessions and symposia and Submission of proposals for supplementary self-organised pre- and post-congress excursions

Contact:

- » Prof. Christian Schlüchter
+41 (0)31 631 87 63
E-Mail

- » **Einweihung Geozentrum Burgdorf**
(28.4.2010):
Labor für Geotechnik und Ingenieurgeologie.
Zusammenarbeit der Berner Fachhochschule Architektur Holz und Bau, Kompetenzzentrum Naturereignisse und Geotechnik (Verantwortlicher: Martin Stoltz) und
Institut für Geologie der Universität Bern, Forschungsgruppe Quartär- und Umweltgeologie (Verantwortlicher: (Prof. Christian Schlüchter))
- [Programm der Einweihung](#)
 - [Medieninformation](#) (16.4.2010)
 - Geodtechnische Untersuchungsmethoden werden am **29. Mai** am Tag der offenen Tür vorgestellt (Erlebnis Geologie).



- » **MSC in Erdwissenschaften:**
Hier finden Sie Informationen zum [Masterstudium](#) in Bern und zu den ausgeschriebenen [Masterarbeiten](#).



- » Am **28./29. Mai 2010** entdeckt die Schweiz die Geologie. Nutzen Sie die Gelegenheit und besuchen Sie unseren [Tag der offenen Tür](#) (Fiver), oder eine der zahlreichen Exkursionen, die über die Homepage www.erlebnis-geologie.ch angeboten werden.

- » **Geologiestudium:**
Auf unserer [Studienseite](#) finden Sie Informationen wie: [Studienführer](#), [Studiennänen](#), [Stundenpläne](#) oder das [Vorlesungsverzeichnis](#). Weitere Fragen können Sie an die [Studentenberater](#) oder an die [Fachschaft GMF](#) richten. Einen ersten Überblick zum Studium bekommen Sie in unserer [Informationsbroschüre](#) (pdf, 613kb). Schauen Sie für einen kleinen Vorgeschmack auf's Studium in der [Fotogalerie](#) vorbei!



- » Die **Forschungsgruppen** des Instituts für Geologie stellen sich vor, darunter auch zwei [SNF Professuren](#). Oder suchen Sie eine bestimmte [Person](#) oder eine [Publikation](#)?
- » Was Sie schon immer über die [Geologie](#) wissen wollten... Oder haben Sie zur Geologie direkt eine [Frage](#) an uns?

Universität Bern | Institut für Geologie | Baltzerstrasse 1+3 | CH-3012 Bern | Tel.: +41 (0)31 631 87 61 | FAX: +41 (0)31 631 48 43 | [E-Mail](#)

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title

<http://pages.unibas.ch/earth/micro/>

>>> BASEL UNIVERSITY HOMEPAGE
>>> DEPARTMENT ENVIRONMENTAL SCIENCES
>>> GEOLOGICAL INSTITUTE

URL

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>>> BASEL UNIVERSITY Vorlesungsverzeichnis
>>> BASEL UNIVERSITY PERSSEARCH

logo



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ROCK DEFORMATION HOME

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-impressum-

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>>> TROMSØ GEODATA
>>> TROMSØ UNIVERSITY HOME PAGE

links to external web sites



struktur

Rock Deformation & Structure Analysis

<http://pages.unibas.ch/earth/micro/index.html>

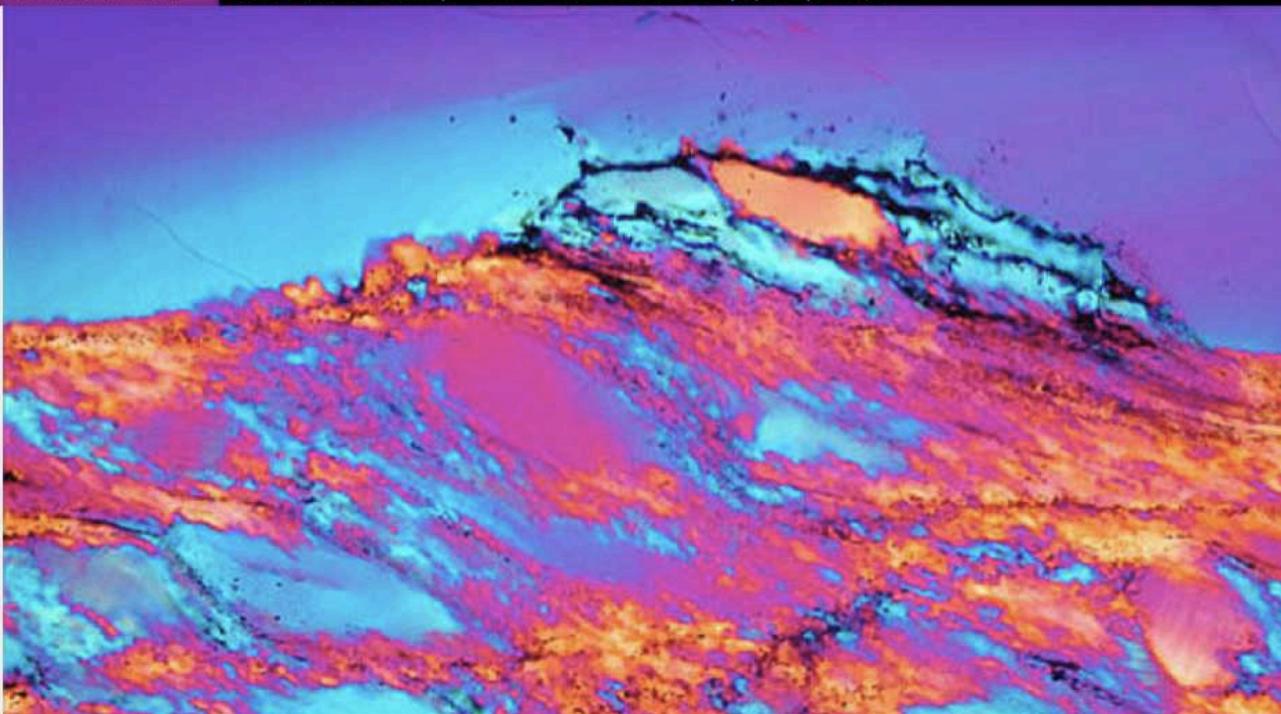
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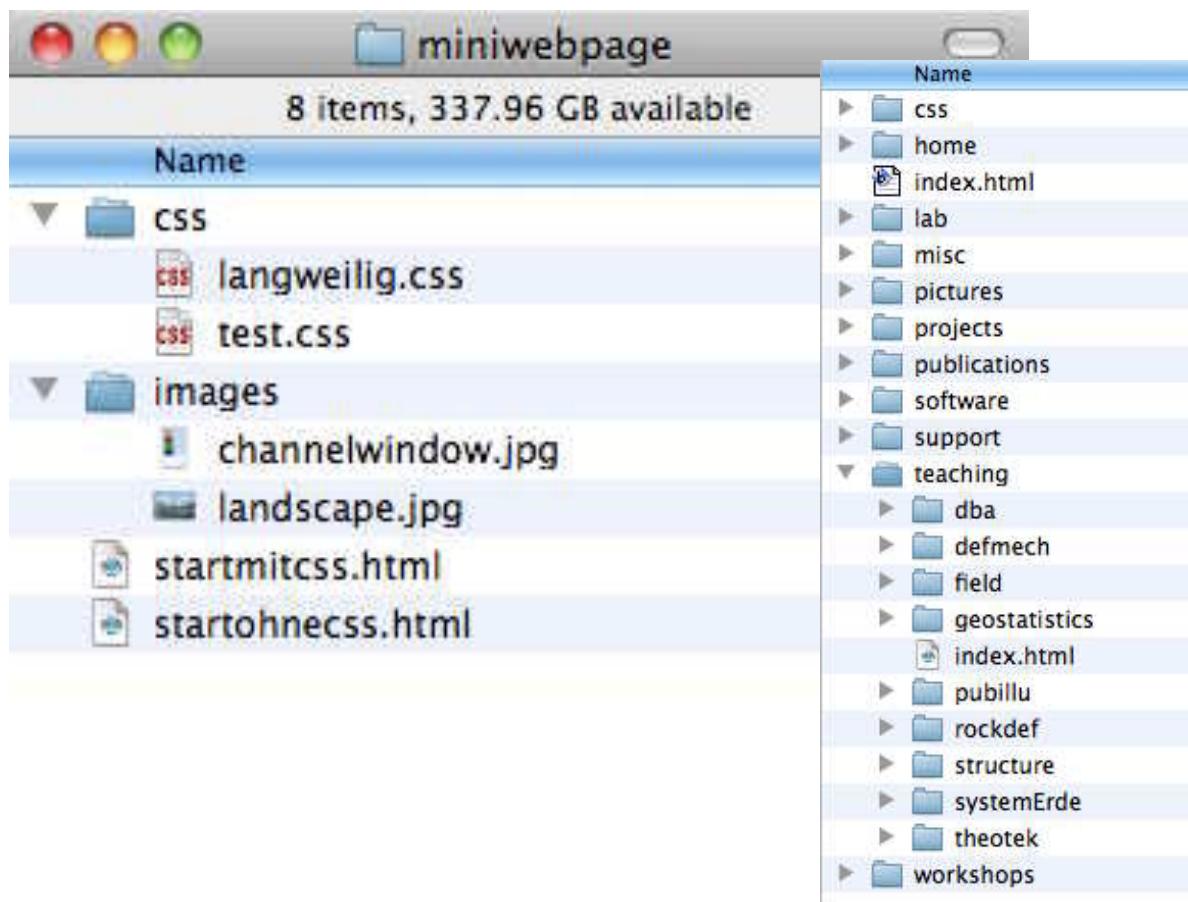
impressum

UNIVERSITETET I TROMSØ

Name

- > [css](#)
- > [home](#)
- > [index.html](#)
- > [lab](#)
- > [misc](#)
- > [pictures](#)
- > [projects](#)
- > [publications](#)
- > [software](#)
- > [support](#)
- > [teaching](#)
 - > [dba](#)
 - > [defmech](#)
 - > [field](#)
 - > [geostatistics](#)
 - > [index.html](#)
 - > [pubillu](#)
 - > [rockdef](#)
 - > [structure](#)
- > [systemErde](#)
- > [theotek](#)
- > [workshops](#)

struktur





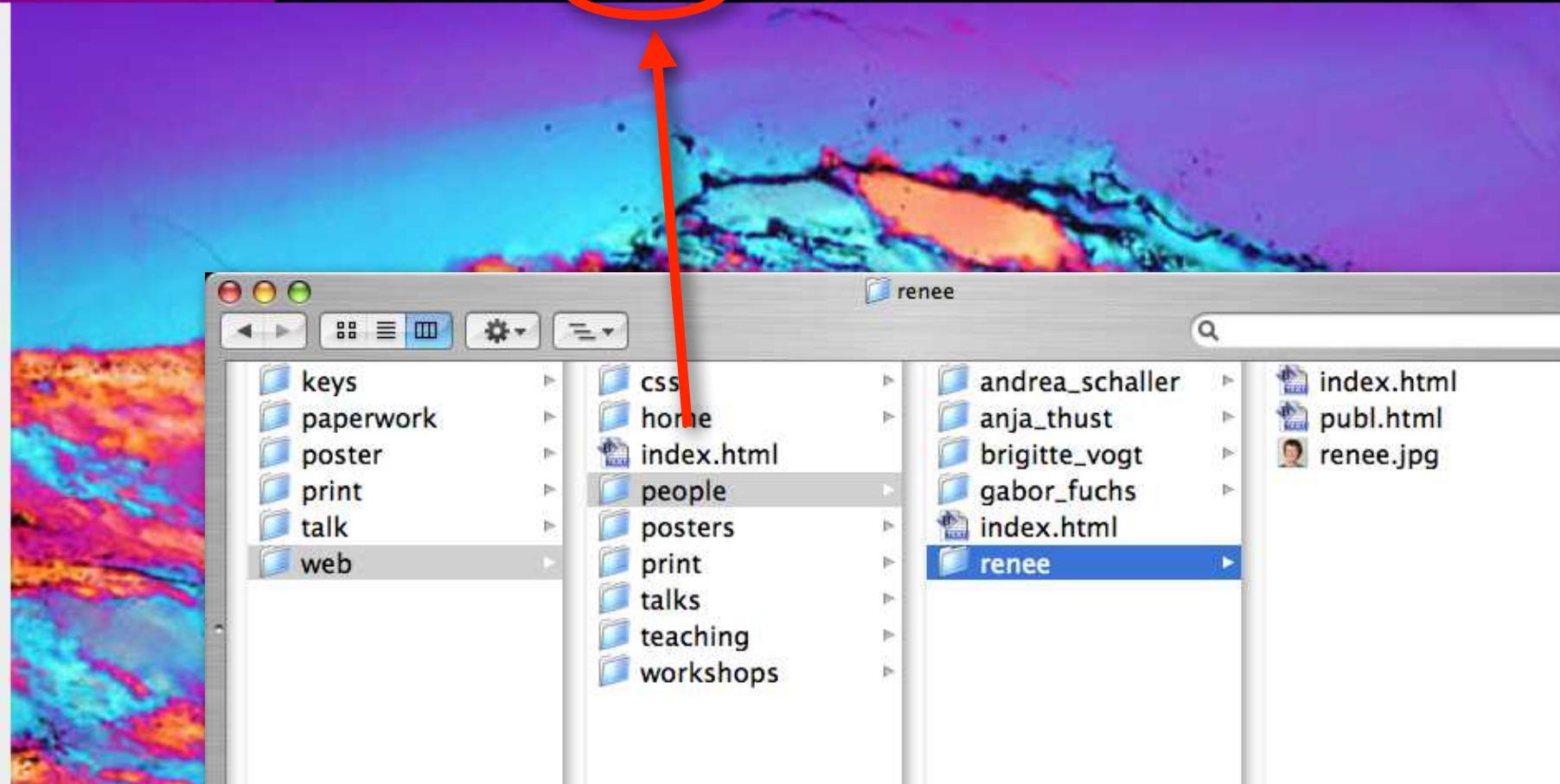
>>> BASEL UNIVERSITY HOMEPAGE
>>> BASEL UNIVERSITY SCIENCE FACULTY (PHIL II)
>>> DEPARTMENT ENVIRONMENTAL SCIENCES
>>> GEOLOGICAL INSTITUTE

>>> BASEL UNIVERSITY LIBRARY
>>> BASEL UNIVERSITY Vorlesungsverzeichnis



ROCK DEFORMATION HOME

address lectures workshops people print posters talks



ROCK DEFORMATION HOME

>>> TROMSØ GEO

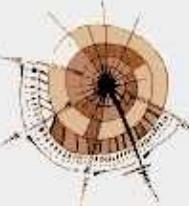
Display a menu

3 items, 40.99 GB available

HTML	hypertext markup language
URL	uniform resource locator
HTTP	hyper text transfer protocol
PDF	portable document format
GIF	graphics interchange format by compuserve: Lossless - LZW (Abraham Lempel, Jacob Ziv, Terry Welch)
JPEG	joint photographic experts group lossy discrete cosine transform followed by Huffman coding
PNG	portable network graphics lossless "deflation"

<http://de.selfhtml.org/index.htm>

SELFHTML: Version 8.1.2 vom 01.03.2007



Die Energie des Verstehens
HTML-Dateien selbst erstellen

SELFHTML

News
Online-News
rund um
SELFHTML

Suche nach:

Inhalt: Allgemeines

- [Editorial](#)
- [Einführung](#)

Inhalt: Web-Technologien

- [HTML/XHTML](#)
- [Stylesheets \(CSS\)](#)
- [XML/DTDs](#)
- [JavaScript/DOM](#)
- [Dynamisches HTML](#)
- [Perl](#)
- [PHP](#)

Inhalt: Ergänzendes Wissen

- [Internationalisierung](#)
- [Grafik](#)
- [Web-Projektverwaltung](#)
- [Webserver/CGI](#)
- [Diverse technische Ergänzungen](#)

Inhalt: Extras

- [Fertige Layouts](#)
- [Kleine Helferlein](#)

Navigation: Einstieg

- [Wie fange ich an?](#)
- [Häufig gestellte Fragen \(FAQ\)](#)

Navigation: Kurzreferenzen

- [Kurzreferenz: HTML](#)
- [Kurzreferenz: CSS](#)

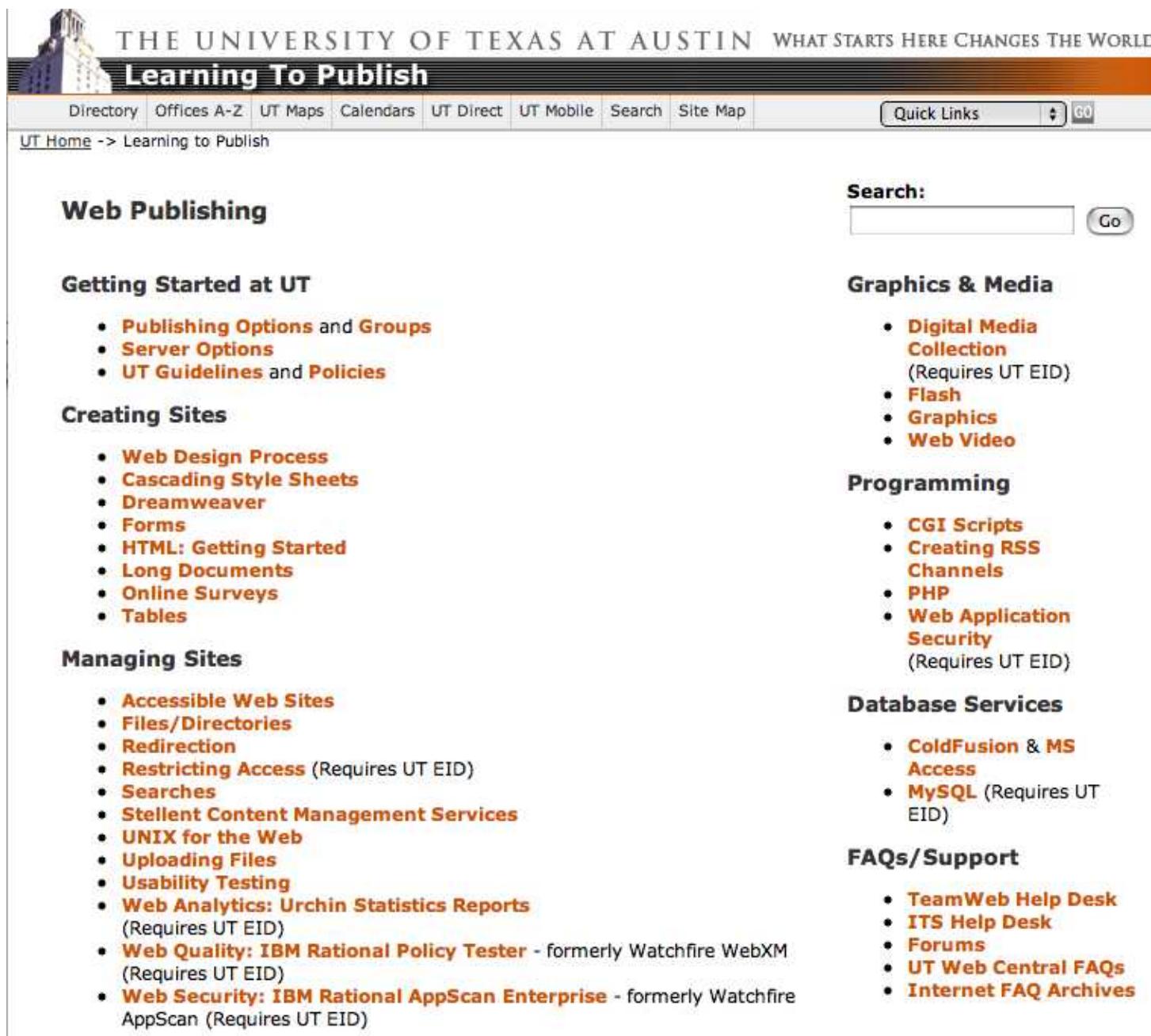
Navigation: Verzeichnisse

- [Inhaltsverzeichnis](#)
- [Syntaxverzeichnis](#)
- [Stichwortverzeichnis](#)

Navigation: Extras

- [Quickbar](#)
- [Sidebars](#)
- [Suche](#)

<http://www.utexas.edu/learn/>



The screenshot shows the "Learning To Publish" section of the UT Austin website. At the top, there's a banner with the university's name and a tagline "WHAT STARTS HERE CHANGES THE WORLD". Below the banner, a navigation bar includes links for Directory, Offices A-Z, UT Maps, Calendars, UT Direct, UT Mobile, Search, Site Map, Quick Links, and a search field with a "Go" button. The main content area has a left sidebar with "Web Publishing" and a right sidebar with "Search:" and "Graphics & Media". The main content is organized into sections: "Getting Started at UT", "Creating Sites", "Managing Sites", "Programming", "Database Services", and "FAQs/Support". Each section contains a bulleted list of resources.

Learning To Publish

Directory Offices A-Z UT Maps Calendars UT Direct UT Mobile Search Site Map Quick Links Go

[UT Home](#) -> Learning to Publish

Web Publishing

Getting Started at UT

- [Publishing Options and Groups](#)
- [Server Options](#)
- [UT Guidelines and Policies](#)

Creating Sites

- [Web Design Process](#)
- [Cascading Style Sheets](#)
- [Dreamweaver](#)
- [Forms](#)
- [HTML: Getting Started](#)
- [Long Documents](#)
- [Online Surveys](#)
- [Tables](#)

Managing Sites

- [Accessible Web Sites](#)
- [Files/Directories](#)
- [Redirection](#)
- [Restricting Access](#) (Requires UT EID)
- [Searches](#)
- [Stellent Content Management Services](#)
- [UNIX for the Web](#)
- [Uploading Files](#)
- [Usability Testing](#)
- [Web Analytics: Urchin Statistics Reports](#) (Requires UT EID)
- [Web Quality: IBM Rational Policy Tester](#) - formerly Watchfire WebXM (Requires UT EID)
- [Web Security: IBM Rational AppScan Enterprise](#) - formerly Watchfire AppScan (Requires UT EID)

Search:

Graphics & Media

- [Digital Media Collection](#)
(Requires UT EID)
- [Flash](#)
- [Graphics](#)
- [Web Video](#)

Programming

- [CGI Scripts](#)
- [Creating RSS Channels](#)
- [PHP](#)
- [Web Application Security](#)
(Requires UT EID)

Database Services

- [ColdFusion & MS Access](#)
- [MySQL](#) (Requires UT EID)

FAQs/Support

- [TeamWeb Help Desk](#)
- [ITS Help Desk](#)
- [Forums](#)
- [UT Web Central FAQs](#)
- [Internet FAQ Archives](#)

Aufbau einer Seite

```
<html>  
  
  <head>  
    <title> ... </title>  
  </head>  
  
  <body>  
    <p> ... ...  
    <table> ... </table>  
  </body>  
  
</html>
```

html tags

table

row

cell

paragraph

break

bold

headers

bullet list

list

link

image

<table> </table>

<tr> </tr>

<td> </td>

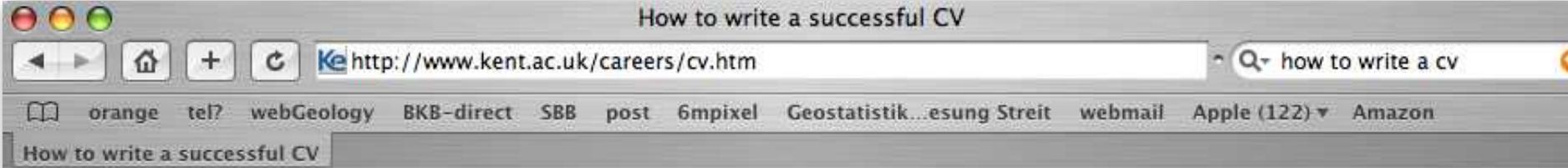
<p>

<h1> </h1> <h2> </h2> etc. <h5> </h5>

 ...

 ...

about CVs and web CVs



The screenshot shows a web browser window titled "How to write a successful CV". The address bar contains the URL <http://www.kent.ac.uk/careers/cv.htm>. The page content is a guide titled "Emailed CVs and Web CVs" with the following bullet points:

- Many employers who accept applications in CV format are happy for you to send your CV as an attachment to an email.
- **Put your covering letter as the body of your email.** It's probably wise to format it as plain text (use the format heading on Outlook Express to do this), as then it can be read by any email reader.
- **Your CV is then sent as an attachment.** This is normally in **MS Word (.doc) format**, but **Rich Text Format (.rtf)** and **html** (web page format) are acceptable alternatives. Also say you'll send a printed CV if required. **PDF (portable document format)** also quite widely used and you can download a pdf converter such as Cute pdf www.cutepdf.com/Products/CutePDF/writer.asp for free: you install it and then "print" the document to a folder on your PC. If in doubt send your CV in several formats.
- **Email it back to yourself first to check it.**

Aufgabe 4 - Vortrag

1. Inhalt definieren

2. Struktur entwerfen

3. Grafik zusammenstellen

4. Vortrag üben

AGU 2009 guidelines for talks

[http://www.projectionnet.com/styleguide/
PresentationStyleGuide.aspx](http://www.projectionnet.com/styleguide/PresentationStyleGuide.aspx)

(full text, see AGU.pdf)

- keep to time
- talk same as abstract
- prepare and rehearse

[http://www.projectionnet.com/styleguide/
PresentationStyleGuide.aspx](http://www.projectionnet.com/styleguide/PresentationStyleGuide.aspx)

- give opening statement
- speak to audience (not screen)
- simple graphics (don't show data scatter)
- one slide = one thought / fact / idea

[http://www.projectionnet.com/styleguide/
PresentationStyleGuide.aspx](http://www.projectionnet.com/styleguide/PresentationStyleGuide.aspx)

- minimum 20 s / slide - 1 to 2 slides / minute
- bold characters not serif - use standard fonts
- tables: maximum 4 columns by 6 rows
- dark background - bright lettering

google: how to give a good talk

<http://www.cs.dartmouth.edu/farid/tutorials/goodtalk.html>

(full text, see HanyFarin.pdf)

- one (15 min) talk = one idea
- talk ≠ paper
- be gracious and honest

- structure:
 - (1) introduce the problem
 - (2) why this is interesting or important
 - (3) describe previous work
 - (4) describe specific problem
 - (5) explain how you solved this problem
 - (6) explain why your work is important
 - (7) discuss remaining problems
- use simple slides (KISS keep it simple, stupid!)

- explain slides - talk to audience
- practise/memorize opening & closing lines
- practice talk & time it
- careful with laser pointers
- repeat & answer questions - ...“I don’t know”
- “Thank you” at the end

BAD TALK

- Launch into the material without stating goals or purpose.
- End abruptly after your last point.
- Throughout, keep your audience clueless about *what you are doing and why*.

GOOD TALK

Give your talk a beginning, a middle, and an end:

- Summarize scope and goals
- Main concepts and conclusions
- Summarize points you would like to see the audience go away with, and provide pointers to additional information

BAD TALK

- Attempt to cover far more material than is practical in the time allotted.
- End the talk abruptly about halfway through your material.
- Be really really speedy to make sure every detail is covered.

GOOD TALK

- Carefully scope what you can cover to the time allotted, allocating time for questions and discussion.
- Decide how many concepts or points you can adequately get across in the allotted time (one concept every 5 minutes is a reasonable rule of thumb), and prioritize to the most important ones.
- View your talk as an opportunity to motivate the audience to learn more about the topic on their own (and provide them the pointers to do so), rather than attempting to teach them everything in the talk itself.

BAD TALK

- Target the talk to *your* knowledge, sophistication and interests, and ignore that of the audience.
- Either bore the audience to death, or impress them with a snow job.
- Don't be concerned whether the audience comes away with new knowledge or renewed interest or enthusiasm about anything you have said.

GOOD TALK

Know your audience, and what you are trying to achieve with this audience, and carefully adjust the content of your talk accordingly:

- How much do they already know about the subject?
- How much background do they have to understand the subject?
- From their perspective, what are they likely to find interesting and exciting?
- How much diversity is there in the audience? Can you provide something of value for both the well-informed and the clueless?

BAD TALK

- Bombard your audience with lots of text on vu-graphs, so as to force them to choose between listening to you or reading.
- Don't waste your time on pictures and figures.

GOOD TALK

- The written word and the spoken word clash, so rely primarily on the spoken word (this is a *talk*, after all).
- The spoken word and images and pictures reinforce each other, so come up with a visual representation of your concepts to work your words around.