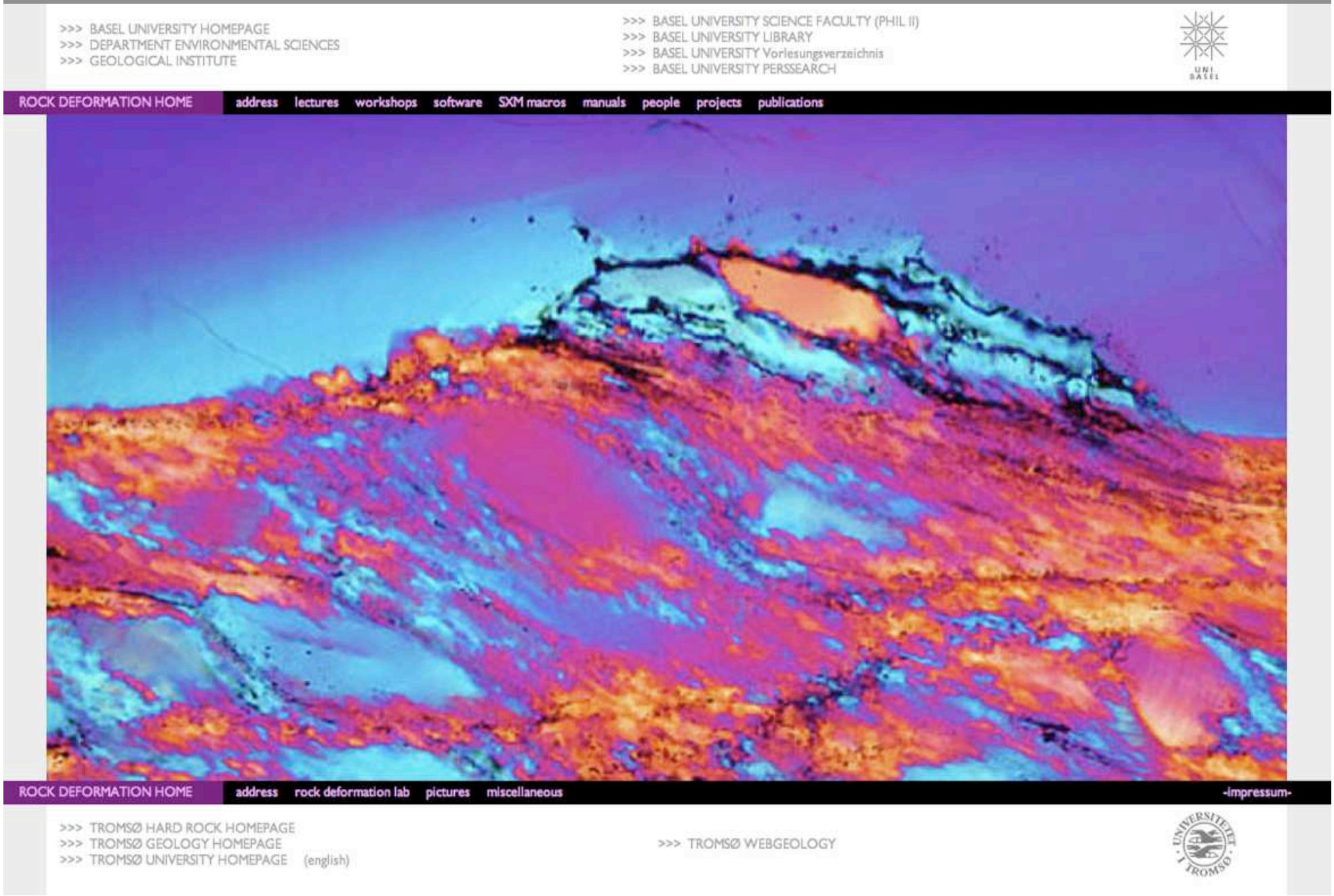
http://www.pubillu/web/index.html



http://www.unibas.ch/earth/micro/

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

>>> BASEL UNIVERSITY SCIENCE FACULTY (PHIL II)
>>> BASEL UNIVERSITY LIBRARY
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>>> BASEL UNIVERSITY PERSSEARCH

ROCK DEFORMATION HOME | address | lectures | workshops | software | SXM macros | manuals | projects | publications

from Cicero's writings, British Museum

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

ROCK DEFORMATION HOME | address | rock deformation lab | pictures | miscellaneous | -impressum-

>>> TROMSØ HARD ROCK HOMEPAGE
>>> TROMSØ GEOLOGY HOMEPAGE
>>> TROMSØ UNIVERSITY HOMEPAGE

>>> TROMSØ WEBGEOLOGY

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 1 - 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. Fabrkorrektur colour corr
3. RGB - YMCK umwandlung monitor - druck
4. RGB - greyscale Kanal wählen
5. Kontrast Transfer kurven
6. Masstab einsetzen make scale
7. Hinweis auf bestimmte Strukturen Layers

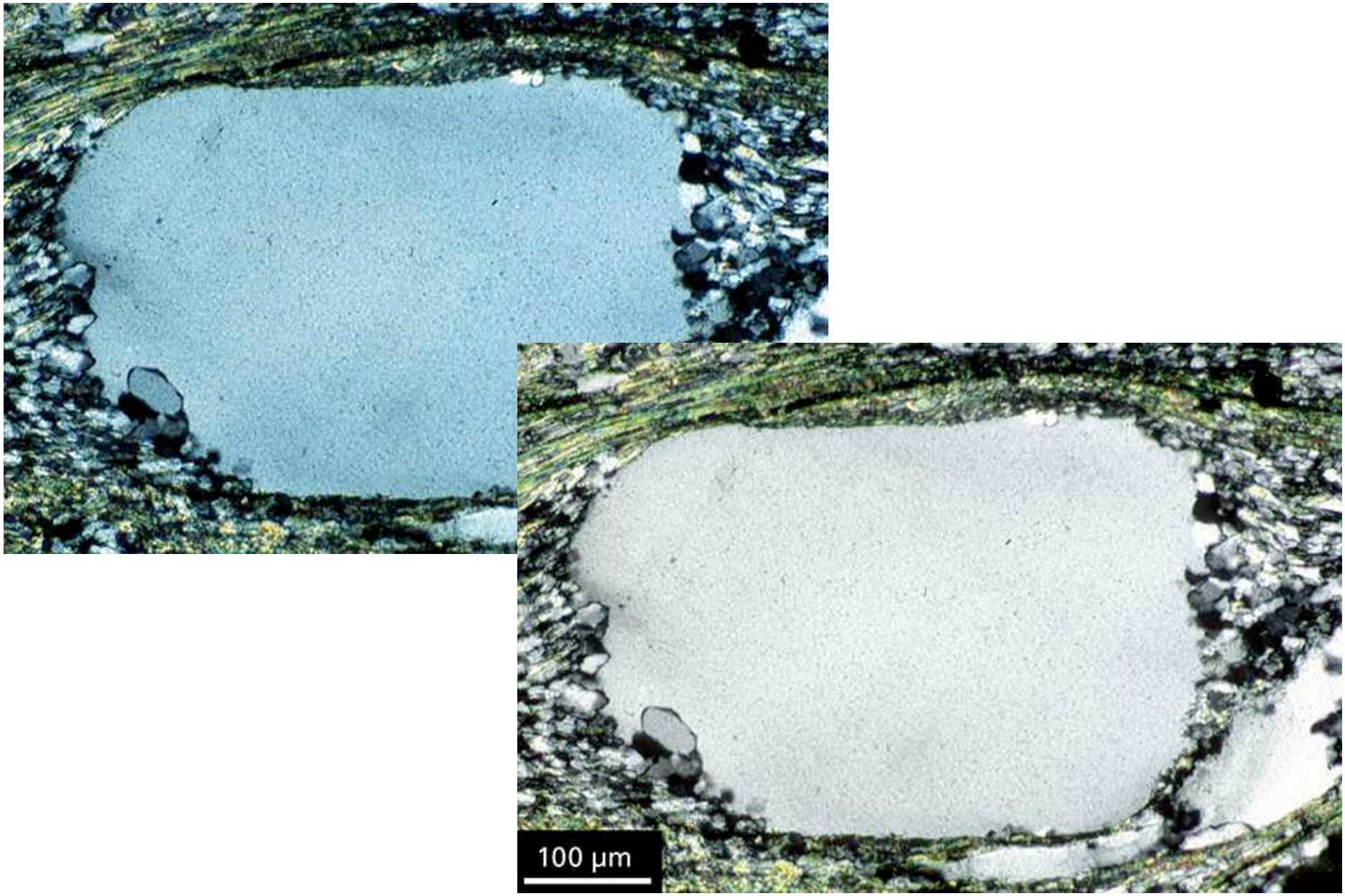
Figurentafel herstellen aus 4-6 Mikrostrukturen

- farbig
- greyscale

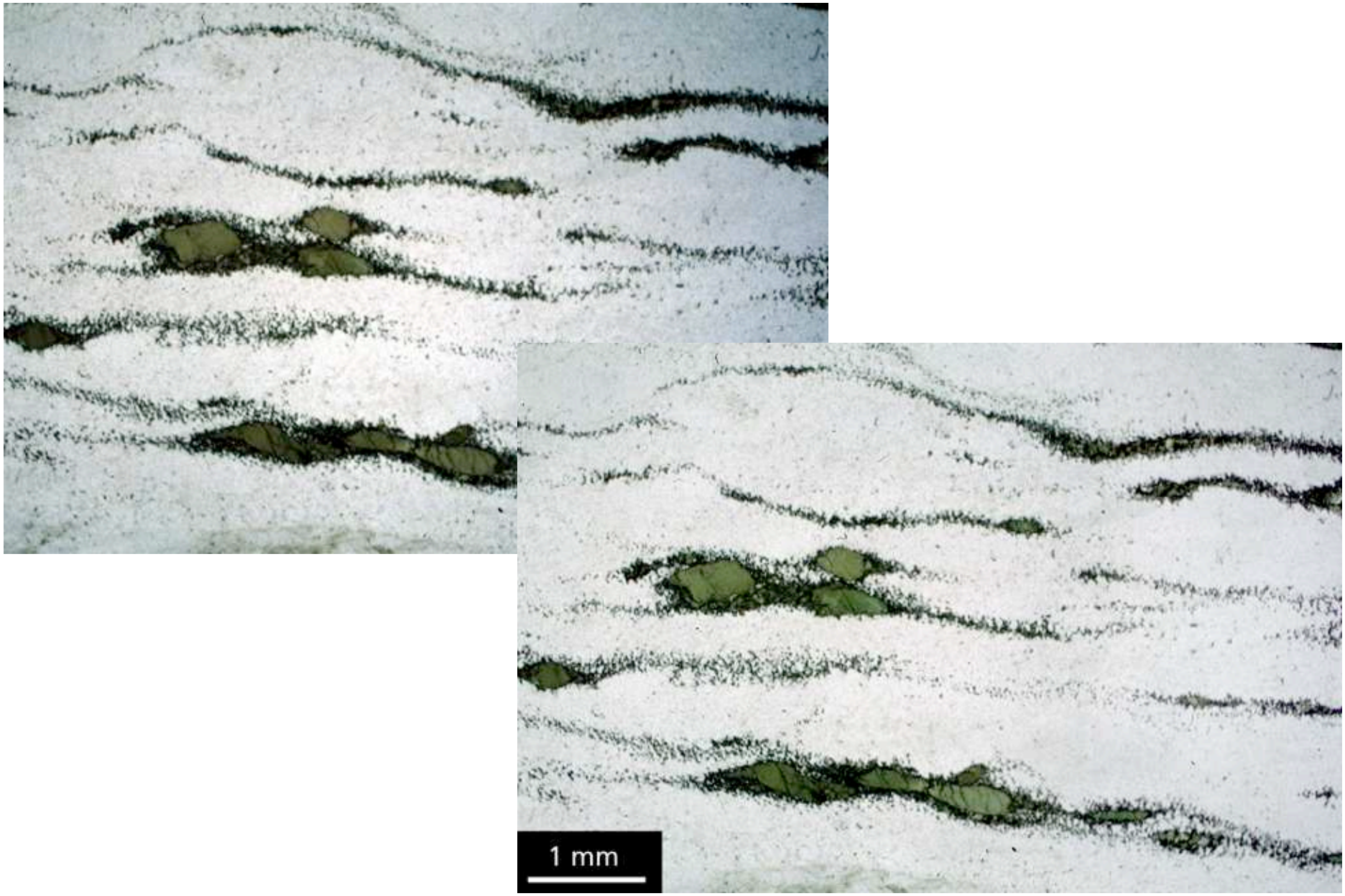
GSA: Rohversionen

Slides: bearbeitete Versionen (cf. Virtual Explorer)

vorher - nachher



vorher - nachher



mit Layers arbeiten

Grauwert bild

aus geologischem Führer

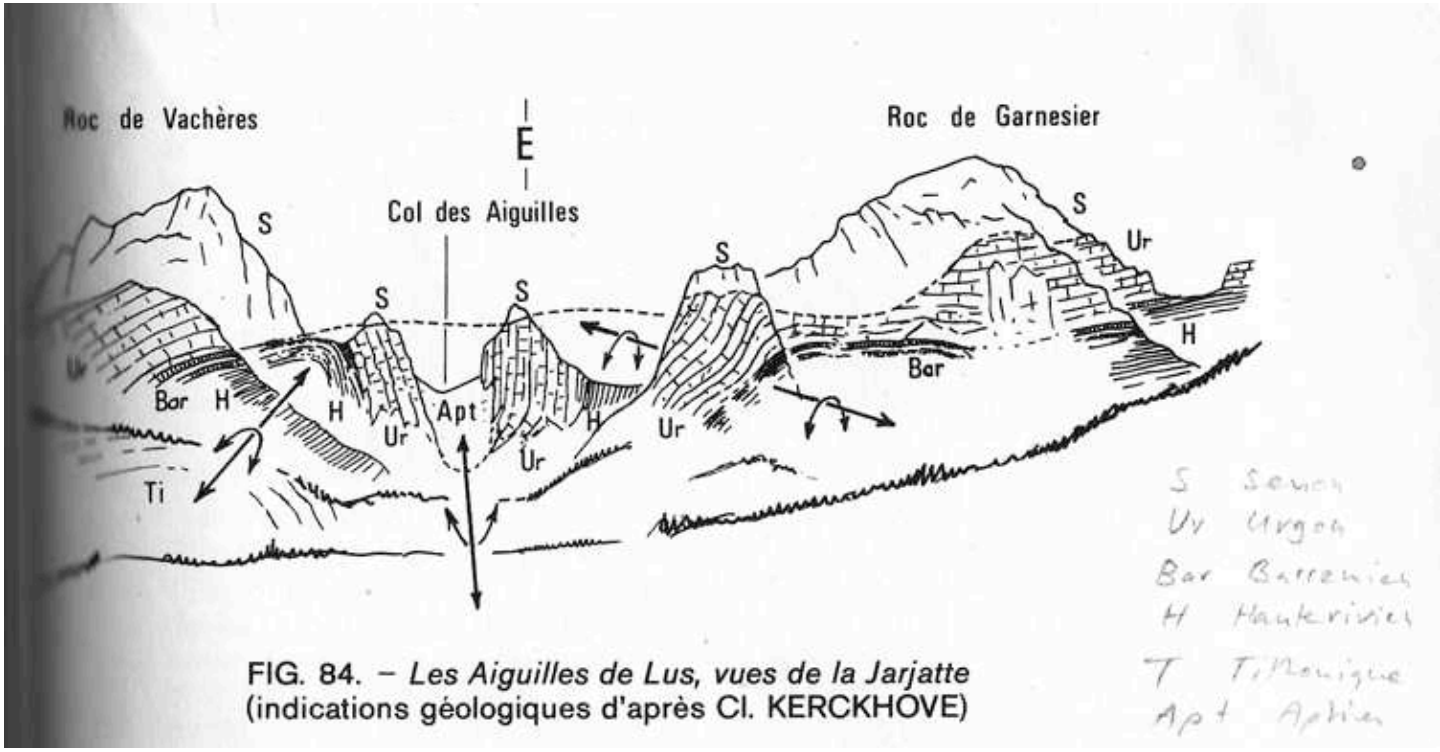
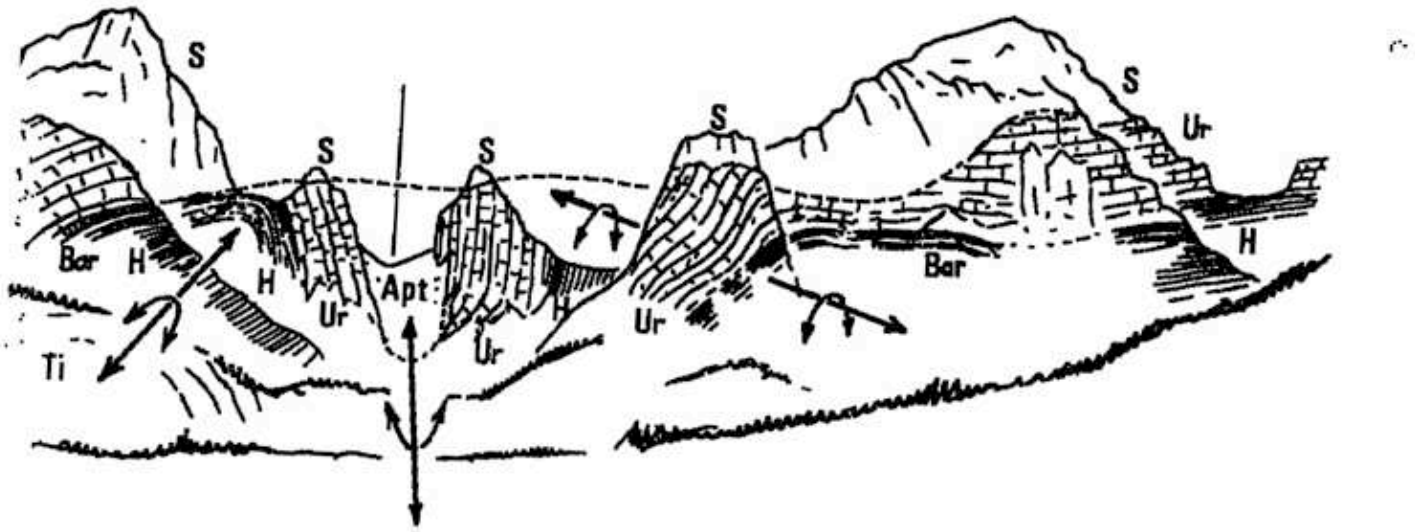
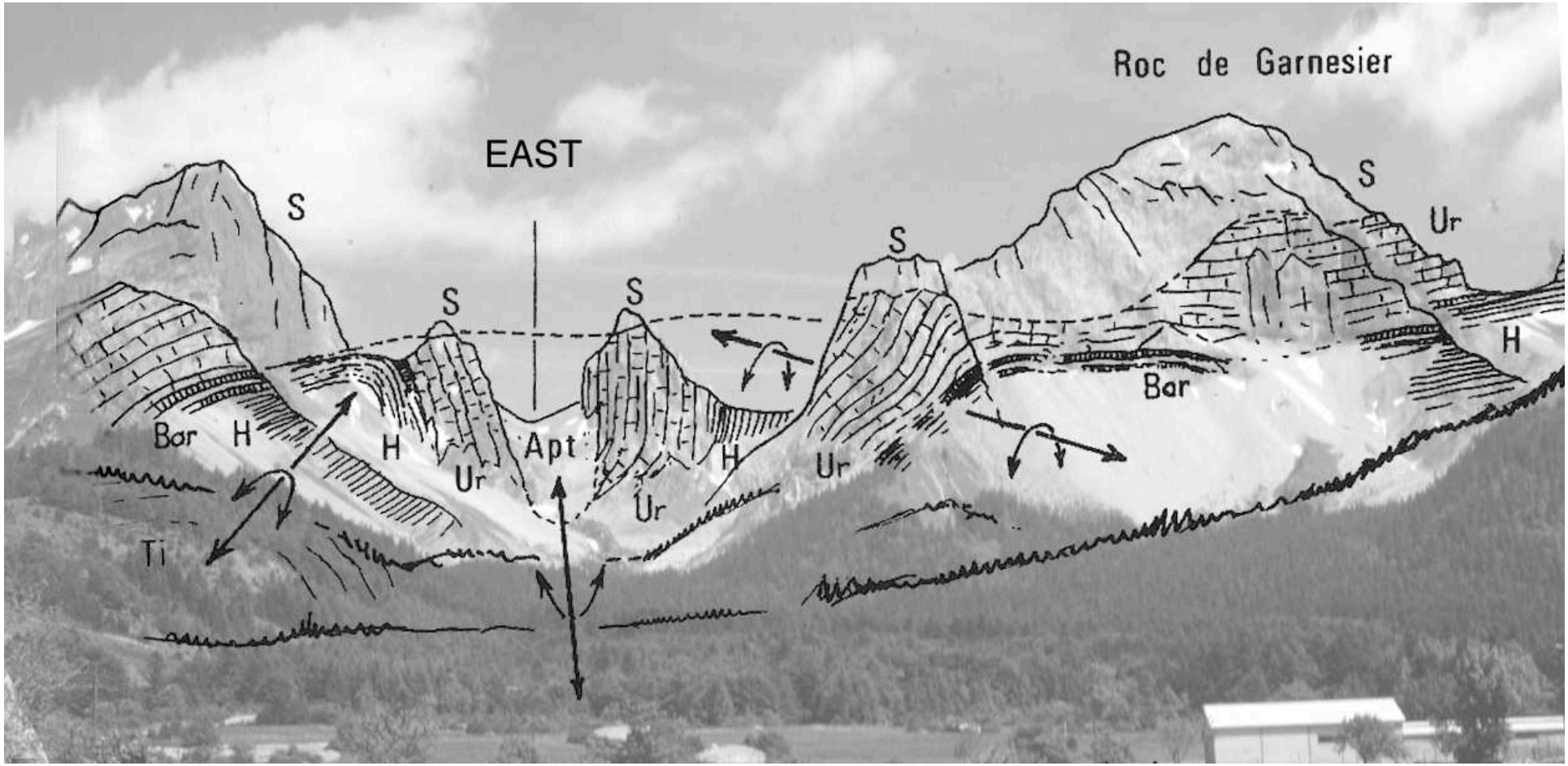


FIG. 84. – *Les Aiguilles de Lus, vues de la Jarjatte*
(indications géologiques d'après Cl. KERCKHOVE)

korrigierte Version



Montage



Aufgabe 2 - Poster

Figurentafel 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-convener-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).

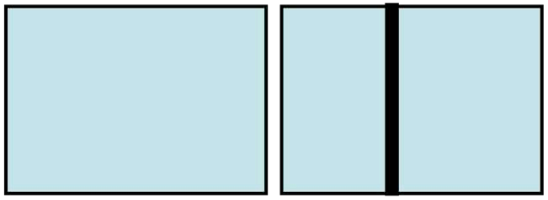
AGU guidelines for posters

http://sites.agu.org/fallmeeting/scientific-program/presenter-convener-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).

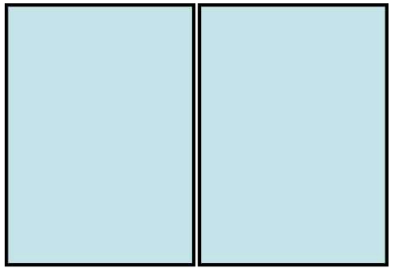
Poster drucken

Prinzipiell zwei Möglichkeiten
für 1.20 m x 1.80 m



~0.85

1.25 + 0.55 = 1.80



1.25

0.85 + 0.85 = 1.70

A0 Drucker URZ druckt
Oversize A0: 88 · 125 cm

von A4 auf A0 ➟ 400%
300dpi ➟ 75 dpi

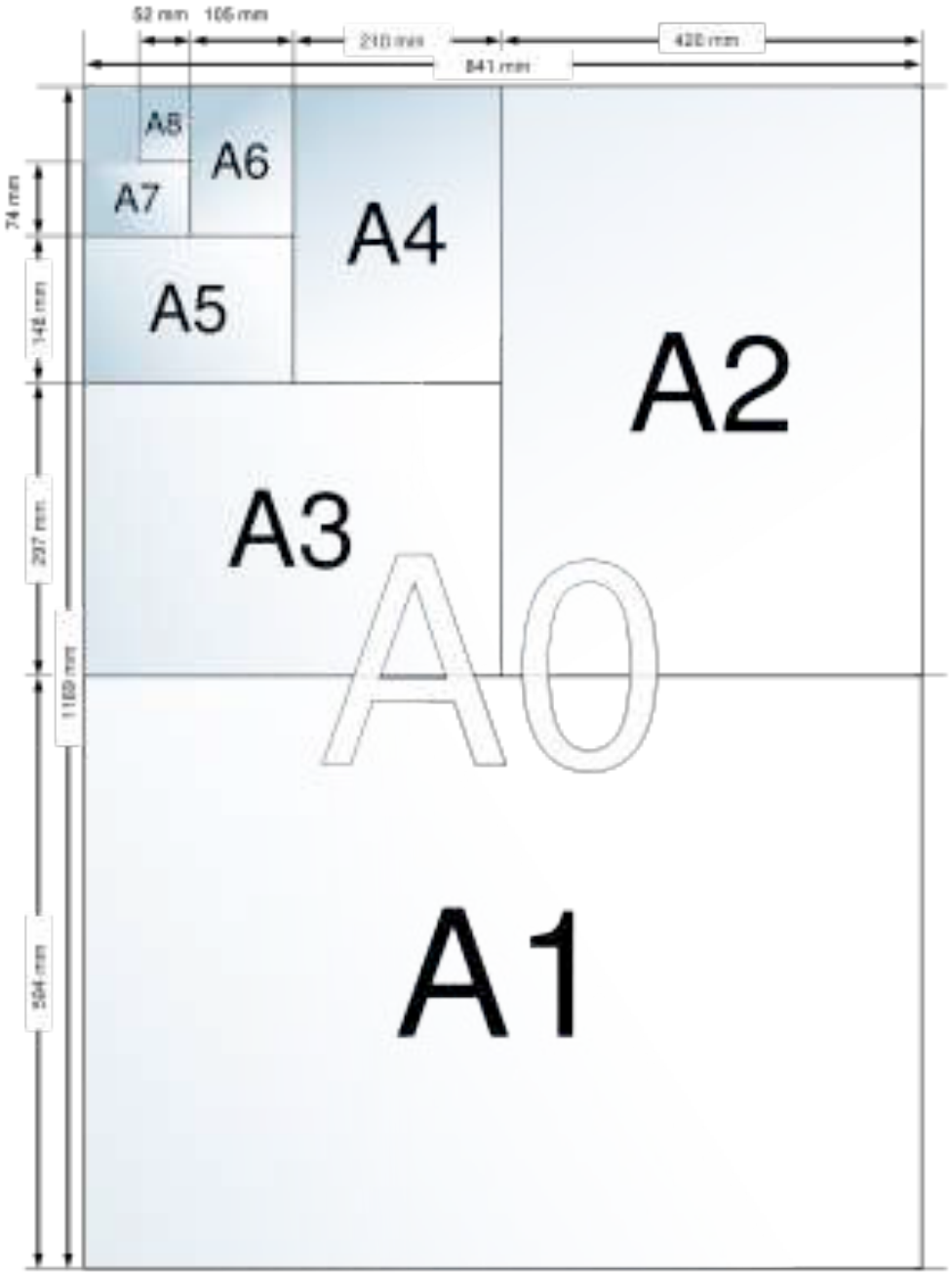
Papierformat A0

= 1m^2 mit
Seitenverhältnis:
1:$\sqrt{2}$ (1:1.4142)

≈ 80 cm · 120 cm

ISO/DIN paper sizes in millimetres and in inches

	A Series Formats		B Series Formats		C Series Formats	
size	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

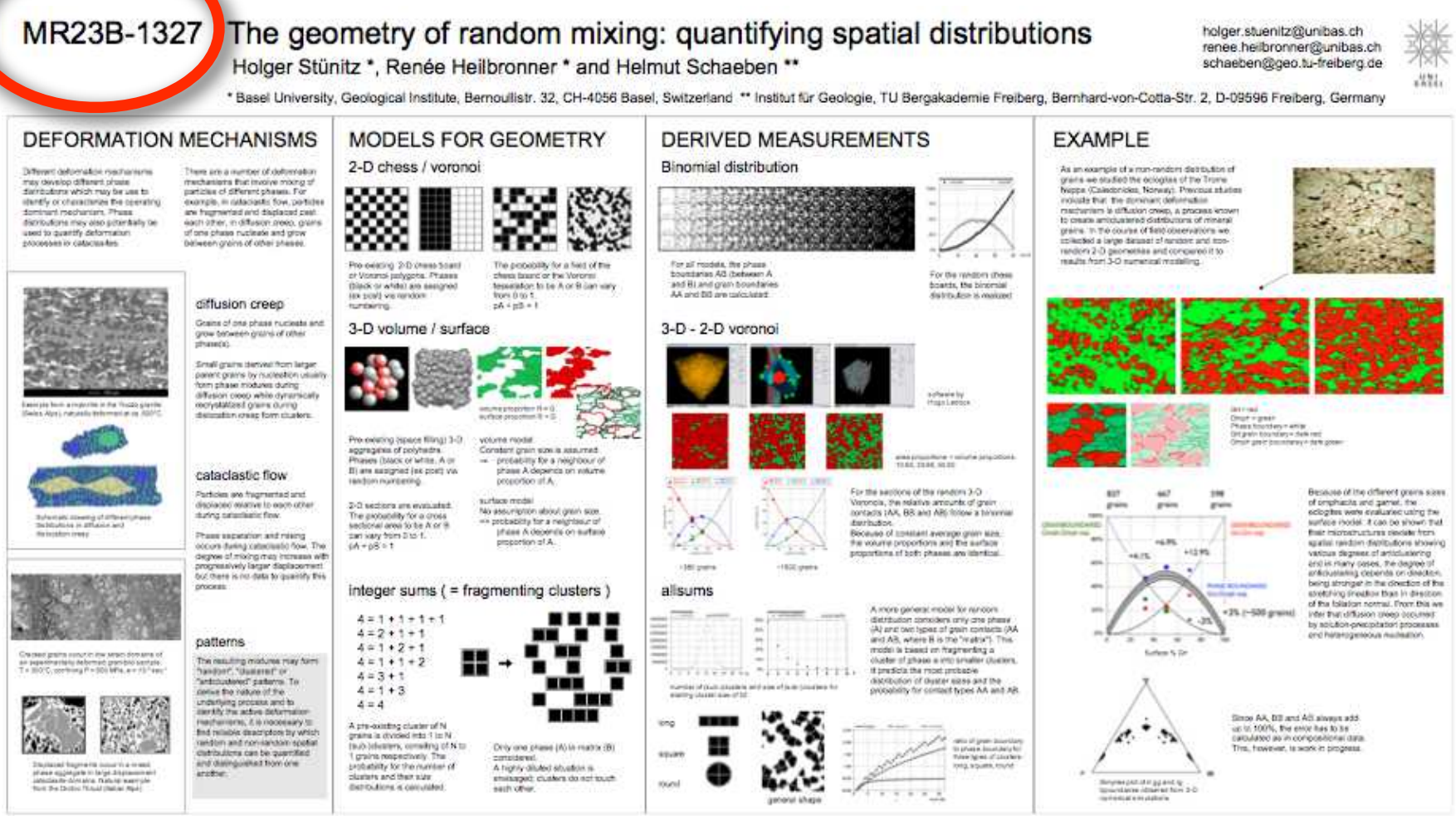
The presentation must cover the material as cited in the abstract.

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



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

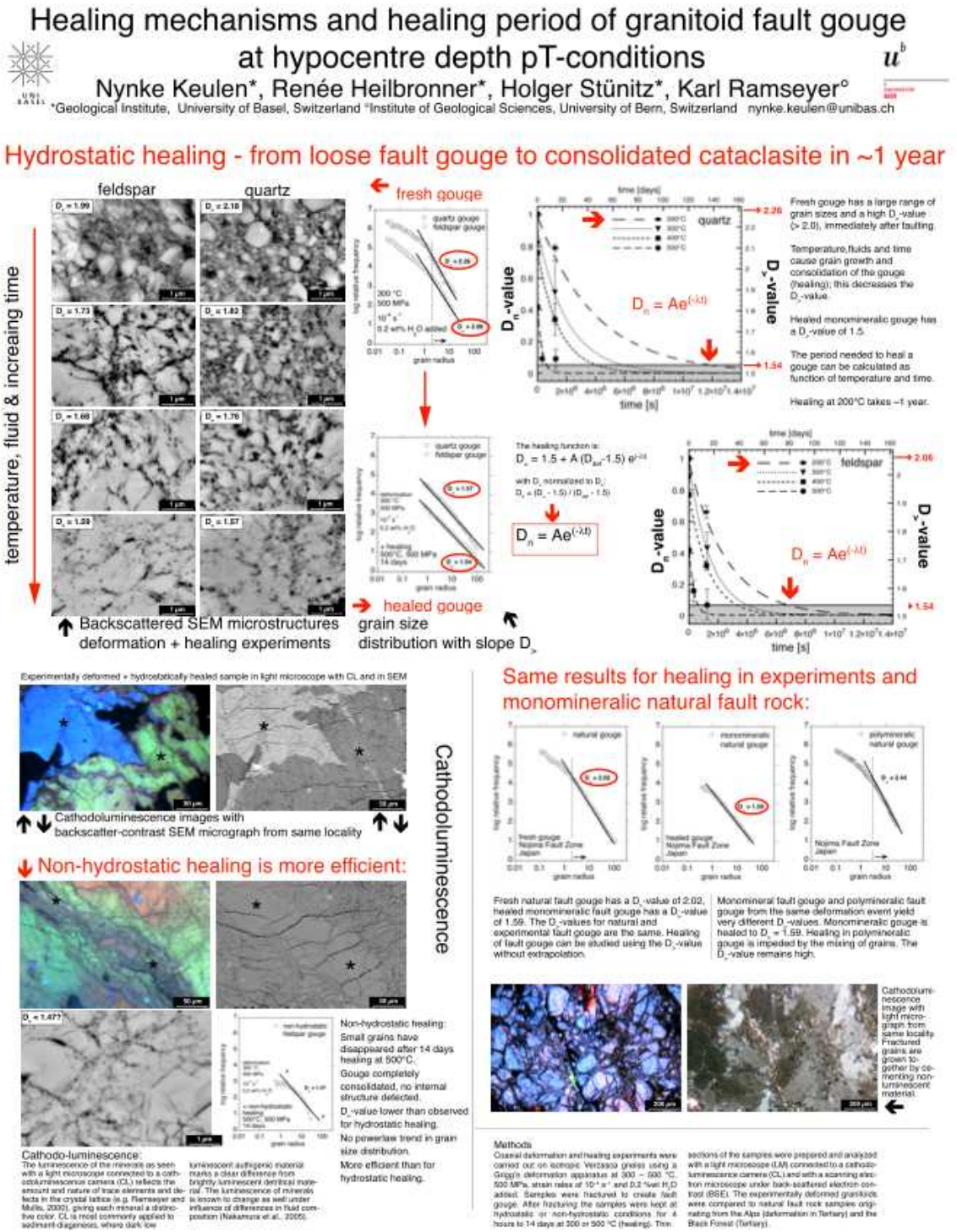
Organize the paper on the poster board so it is clear, orderly, and self-explanatory.

➠ storyboard

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

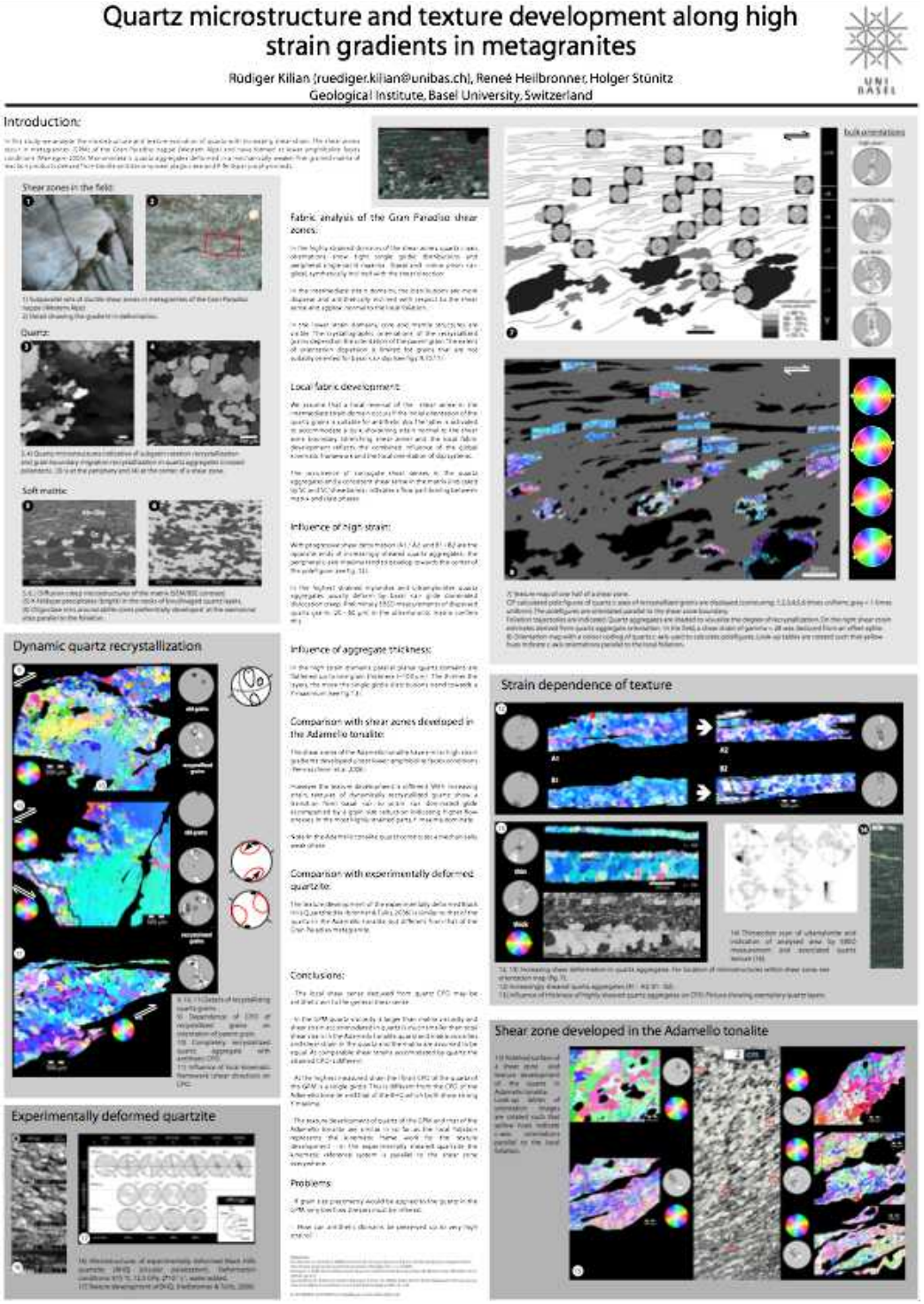
Beispiel

➟ storyboard:
3 major topics



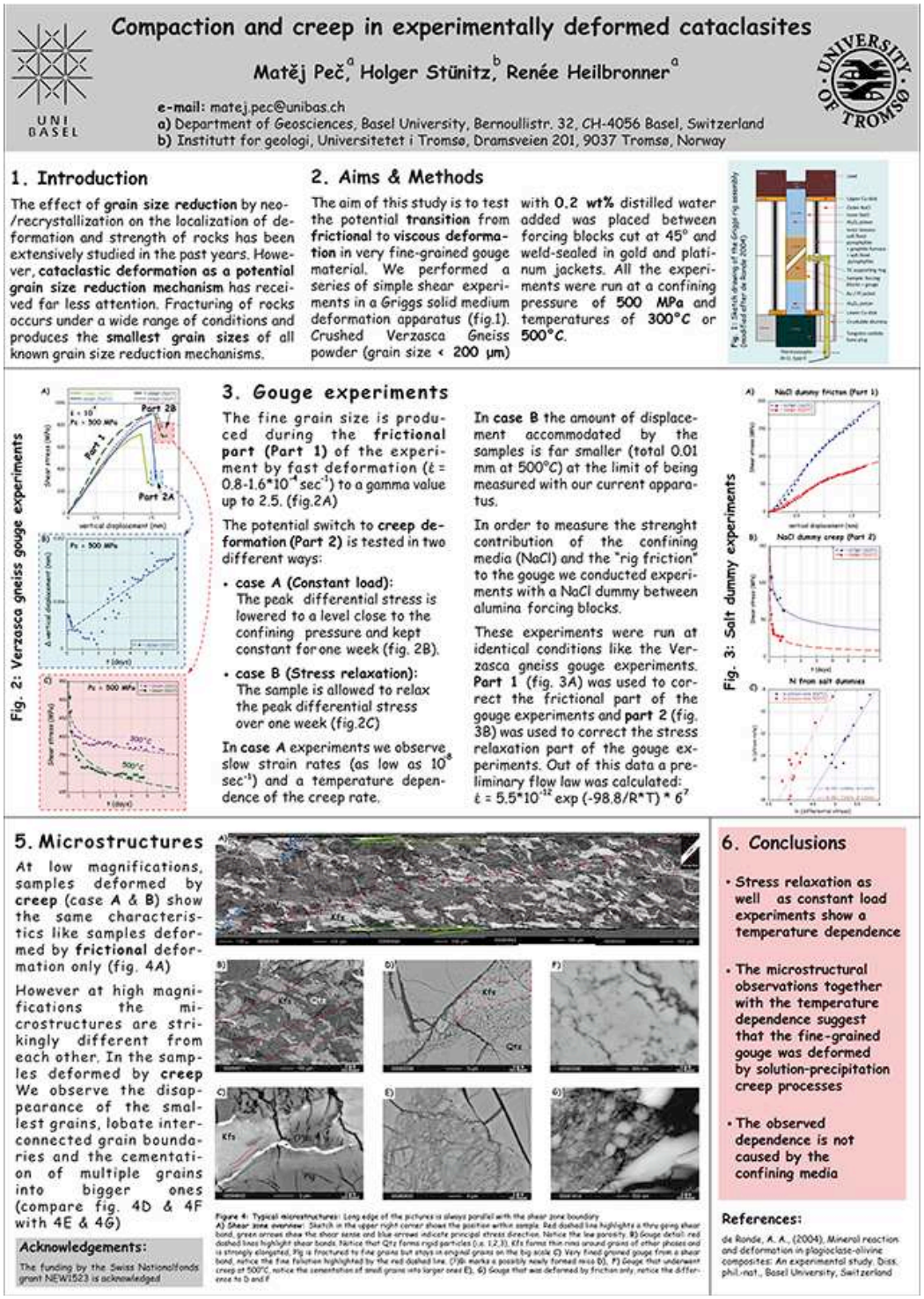
Beispiel

➟ storyboard:
linear
top to bottom



Beispiel

➟ storyboard:
linear
top to bottom



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, Dramsveien 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 µm**) 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. 2: Verzasca gneiss gouge experiments

3. Gouge experiments

The fine grain size is produced during the **frictional part (Part 1)** of the experiment by fast deformation ($\dot{\varepsilon}$ = 0.8-1.6*10^{-4} 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.

In **case B** the amount of displacement accommodated by the samples is far smaller (total 0.01 mm at 500°C) at the limit of being measured with our current apparatus.

In order to measure the strenght contribution of the confining media (NaCl) and the "rig friction" to the gouge we conducted experiments with a NaCl dummy between alumina forcing blocks.

These experiments were run at identical conditions like the Verzasca gneiss gouge experiments. **Part 1** (fig. 3A) was used to correct the frictional part of the gouge experiments and **part 2** (fig. 3B) was used to correct the stress relaxation part of the gouge experiments. Out of this data a preliminary flow law was calculated:

$\dot{\varepsilon} = 5.5*10^{12} \exp(-98.8/R*T) * \sigma^7$

Fig. 3: Salt dummy experiments

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 with 4E & 4G)

Figure 4: Typical microstructures: Long edge of the pictures is always parallel with the shear zone boundary. A) **Shear zone overview**: Sketch in the upper right corner shows the position within sample. Red dashed line highlights a thru going shear band, green arrows show the shear sense and blue arrows indicate principal stress direction. Notice the low porosity. B) Gouge detail: red dashed lines highlight shear bands. Notice that Qtz forms rigid particles (i.e. 1,2,3). Kfs forms thin rims around grains of other phases and is strongly elongated. Pig is fractured to fine grains but stays in original grains on the big scale C) Very fined grained gouge from a shear band, notice the fine foliation highlighted by the red dashed line. (?)fo marks a possibly newly formed mica D), F) Gouge that underwent creep at 500°C, notice the cementation of small grains into larger ones E), G) Gouge that was deformed by frichon only, notice the difference to D and F

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

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:
Zeitungsartikel

SWISS GEOSCIENCE MEETING 2008

The Availability of H_2O for Deformation in Natural Quartz Single Crystal Experiments

Anja Thust*, Alexandre Tarantola**, Renée Heilbronner*, Holger Stünitz ***

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** Institute of Geological Sciences, University of Bern, Baltzerstr. 3, CH-3012 Bern, Switzerland
*** Institutt for geologi, Universitetet i Tromsø, Dramsveien 201, 9037 Tromsø, Norway
e-mail: anja.thust@unibas.ch

Introduction:

H_2O is very important for quartz deformation. Experimental studies on synthetic and natural quartz crystals demonstrated that H_2O 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 H_2O weakening.The compression direction has been normal to the <c>-axis and one of the prism planes.

Experiments and H_2O content:

The experiments are carried out on milky quartz material because this materail contain enough H_2O. They show a flow strength of 150 MPa under 1 GPa confining pressure and 900°C with a stain rate of $7*10^{-6}$ s^{-1} (Fig.1). The water content in the *undeformed material* is very heterogeneous and not possilbe to determine in average. Fourier Transform Infrared spectroscopy (FTIR) point measurements (100*100 µm) on the quartz material (clear regions) give an H_2O content of about 50-150 H/10^6Si, in contrast measurements directly on fluid inclusinons show in H_2O conten of 250 times more (Fig.2).

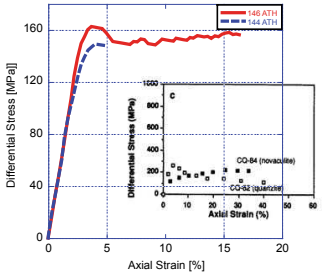


Fig.1: Stress-strain diagram of two experiments (144ATH & 146ATH) at contstant diplacemnet shwoing repreducable data. Next to it tah stress-stain diagram of quartzites and novaculite from Hirth and Tullis (1992) witch show a comparable strnegth.

After deformation the H_2O distribution is more homogenous and the majority of the big inclusions have disappeared and small inclusions are formed and often arranged in fluid clusters (Fig.3b). The H_2O-content of deformed regions with undulatory extinction is approximately 3000 H/10^6Si. We infer that during deformation the inclusions disrupt and form micro cracks. The cracks heal rapidly, during the healing and plastic deformation H_2O is distributed in the quartz crystals via defects and contributes to the H_2O-weakening effect.

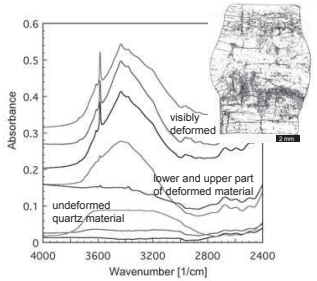


Fig.2: FTIR spectra for undeformed and deformed material. Absorbance is relative. Im the right corner a modified thin section photomicrograph of a deformed sample, where the black clouds show the distribution of fluid inclusions as well as some cracks.

Fluid inclusions:

- Large number of fluid inclusions with a high variation in size an shape (Fig.3a)
- Presence of antarticite ($CaCl_2 \cdot 6H_2O$) and hydrohalite ($NaCl \cdot 2H_2O$)
- 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% higer
- Total homogenization temperatures are between 184°C and 207°C
- Small amounts of CO_2 and some accidentally trapped solids like calcite, quartz or rutile

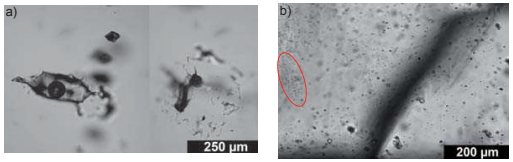


Fig.3: a) Typical fluid inclusions in the undefromed material, with a perfect negative crystal shape (left) or undifinde morphology (right). The surrounding quatz is clear. b) Fluid inclusion distribution in the deformed material much smaller, homoheneous throughout the sample and often arranged in clusters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

Conclusions:

1) Start with a two phase meterial, pure dry quartz and H_2O rich fluid inclusions
2) This distribution provides enough H_2O for H_2O weakening
3) The H_2O 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 H_2O weakening

References:

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

Beispiel

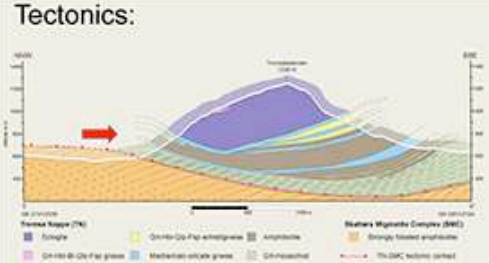
➟ storyboard: 2 major topics

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

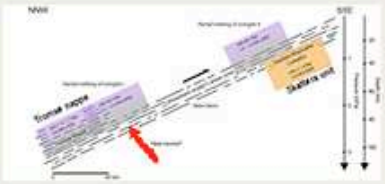
Holger Stunitz (1), James MacKenzie (2), Renée Heilbronner (2), Kåre Kullerud (1), Erling Ravna (1), Steffen Bergh (1)

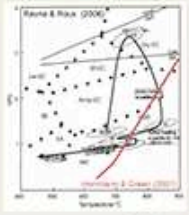
(1) Department of Geology, University of Tromsø, Dramsveien 201, 9037 Tromsø, Norway
(2) Geologisches Institut, Basel University, 4056 Basel, Switzerland

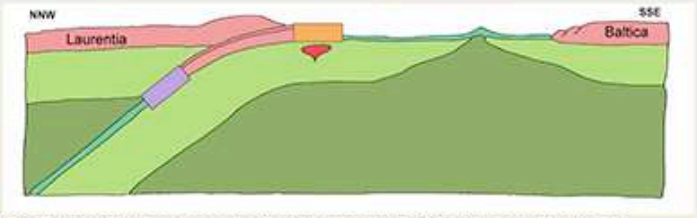
Tectonics:



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



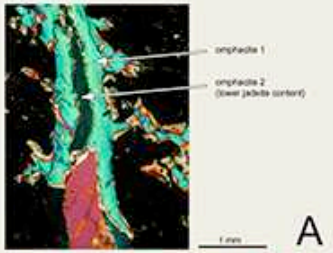




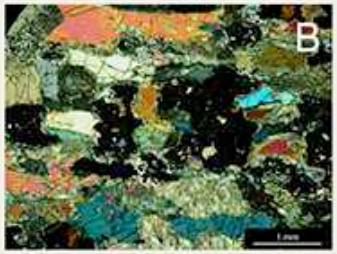
The Tromsø Nappe represents the uppermost unit of the Northern Norwegian Caledonides nappe pile and is regarded as part of the Laurentian continental margin. Its present position is caused by thrusting of continental margin sediments together with mafic rocks onto high temperature mafic migmatites (Skattøra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

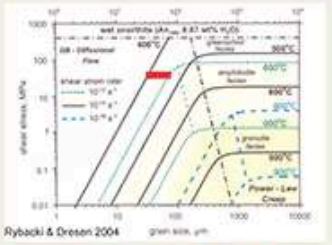
Deformation mechanisms:

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.



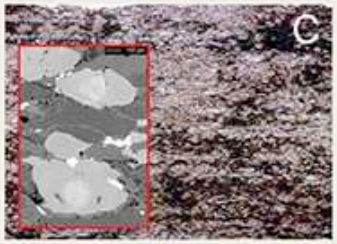
Back-of-the-enevelope-calculations for the exhumation show that the strain rates for the deformed rocks should be on the order of 10^{-12} to 10^{-10} s^{-1}.

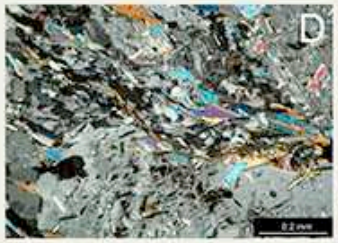


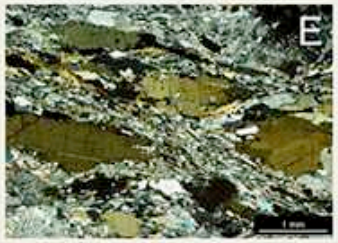


Conclusions and summary:

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

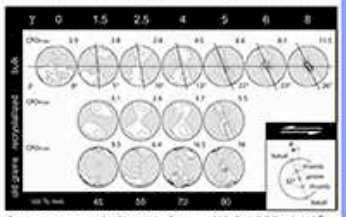
Jun Muto, Jan Tullis (Brown Univ.) & Renée Heilbronner (Univ. Basel)

BROWN UNI 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.

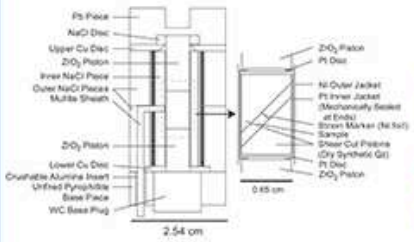
In order to clarify how dynamic recrystllization affects quartz c-axis LPOs, we have undertaken an experimental study using single crystals of relatively 'wet' synthetic quartz, using different crystal orientations in general shear (simple shear and thinning).

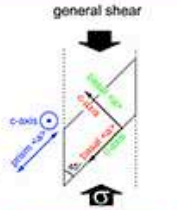


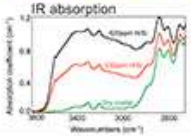
General shear expts for Black Hills Quartz at 900°C, 1.5 GPa, $\dot{\gamma} \sim 10^{-5}$/s. Heilbronner & Tullis (2006) JGR doi:10.1029/2005JB004194

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.

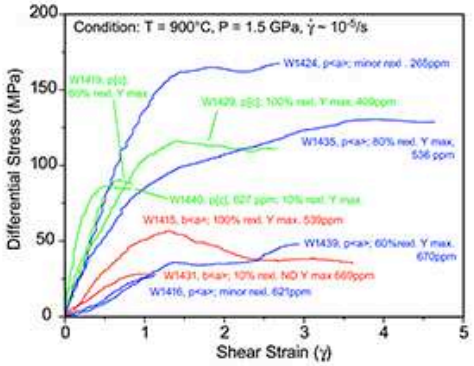






Samples: synthetic quartz single crystals grown by Nihon Denpa Kogyo (Tokyo, Japan)
Water contents: 300 ~ 650 ppm H/Si (molecular H_2O)

3. Mechanical Data



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

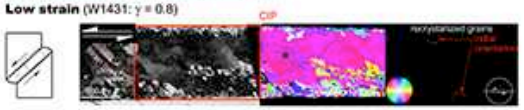
prism <a> ~ basal <a> < prism [c]

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).

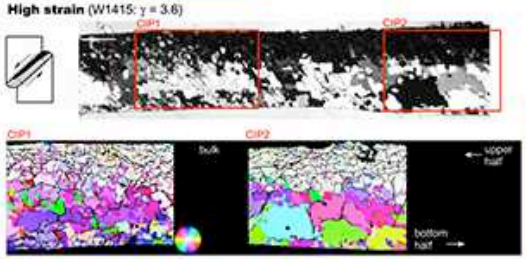
4. Microstructures

4. 1. Basal <a> orientation

Low strain (W1431: $\gamma = 0.8$)



High strain (W1415: $\gamma = 3.6$)

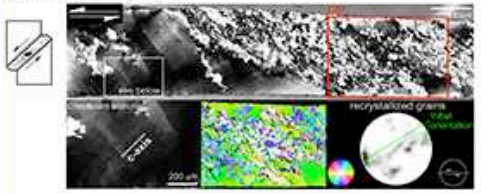


Low strain ($\gamma \sim 1$): rotation of c-axis and chessboard extinction (subgrains involving a combination of basal <a> and prism [c] slip).

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 (W1429: $\gamma = 2.6$)

Low strain ($\gamma \sim 1$): chessboard extinction and 60% recrystallization with a very small volume fraction of Y max fabric.

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

4. 3. Prism <a> orientation

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

High strain (W1435: $\gamma = 4.6$)

Low to intermediate strain ($\gamma < 2.5$): deformation lamellae and subgrains (prism <a> double slip) and minor recrystallization.

Intermediate to high strain: At $\gamma \sim 3$, 60 % recrystallization; most recrystallized grains have basal <a>, prism [c] or rhomb <a> orientation with a small volume fraction of Y maximum. At $\gamma \sim 4.5$, 80 % recrystallization; the volume fraction of the Y maximum domain makes up 2/3 of recrystallized grains.

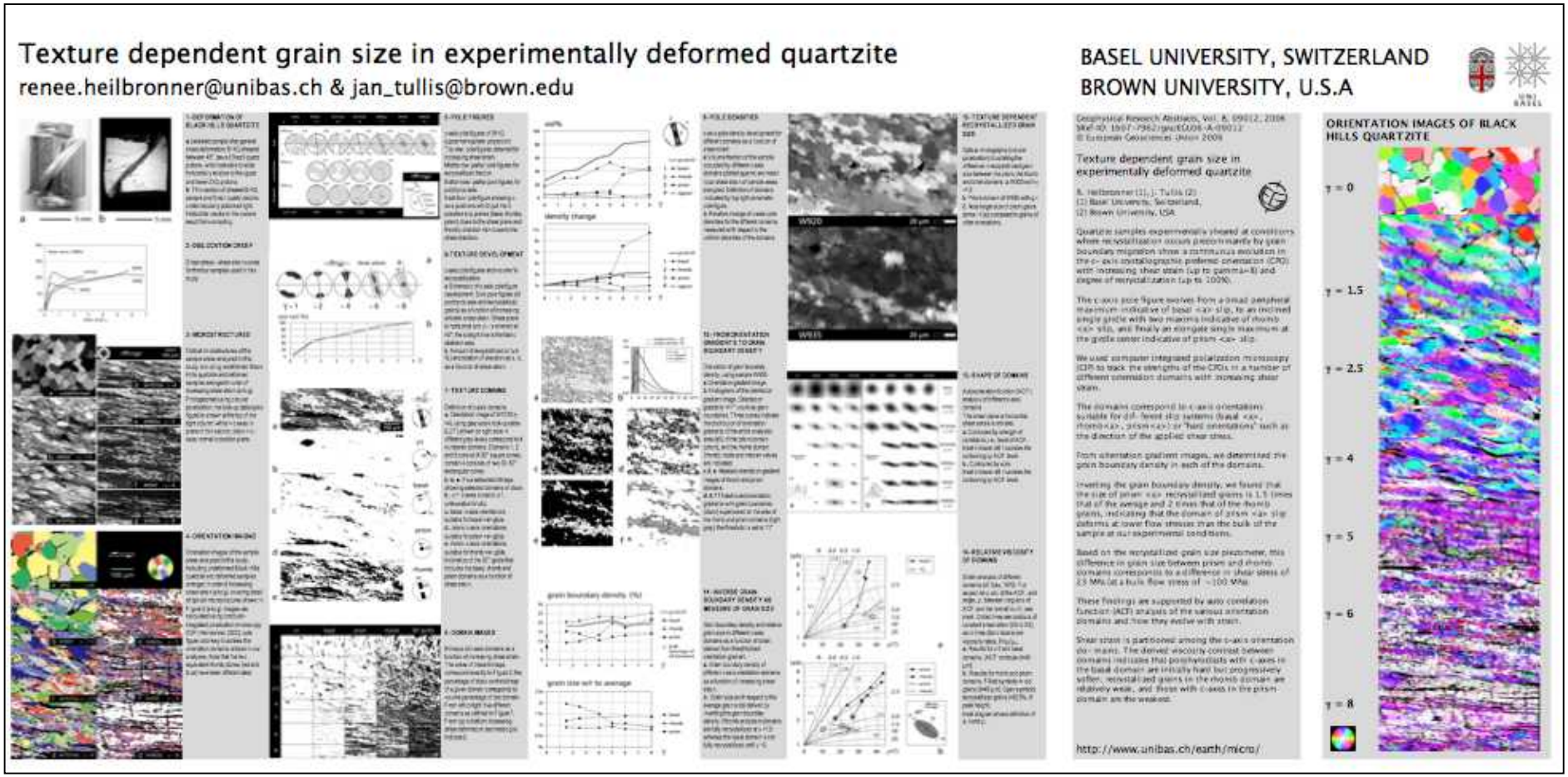
5. Conclusions

Prism <a> slip system has a lower Schmidt 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. Pub.*, **200**, 191. [2] Heilbronner, R. and J. Tullis (2006) *J. Geophys. Res.*, **111**, B10202.

Beispiel

➠ storyboard: linear - read paper (figure captions)



Abstract

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Use squares, rectangles, circles, etc., to group similar ideas.

Avoid cluttering your poster with too much text.

Label different elements as I, II, III; or 1, 2, 3; or A, B, C, making it easier for a viewer to follow your display.

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Include the background of your research followed by results and conclusions.

A successful poster presentation depends on how well you convey information to an interested audience.

Please do not laminate your poster if you want the Moscone Center to recycle it.

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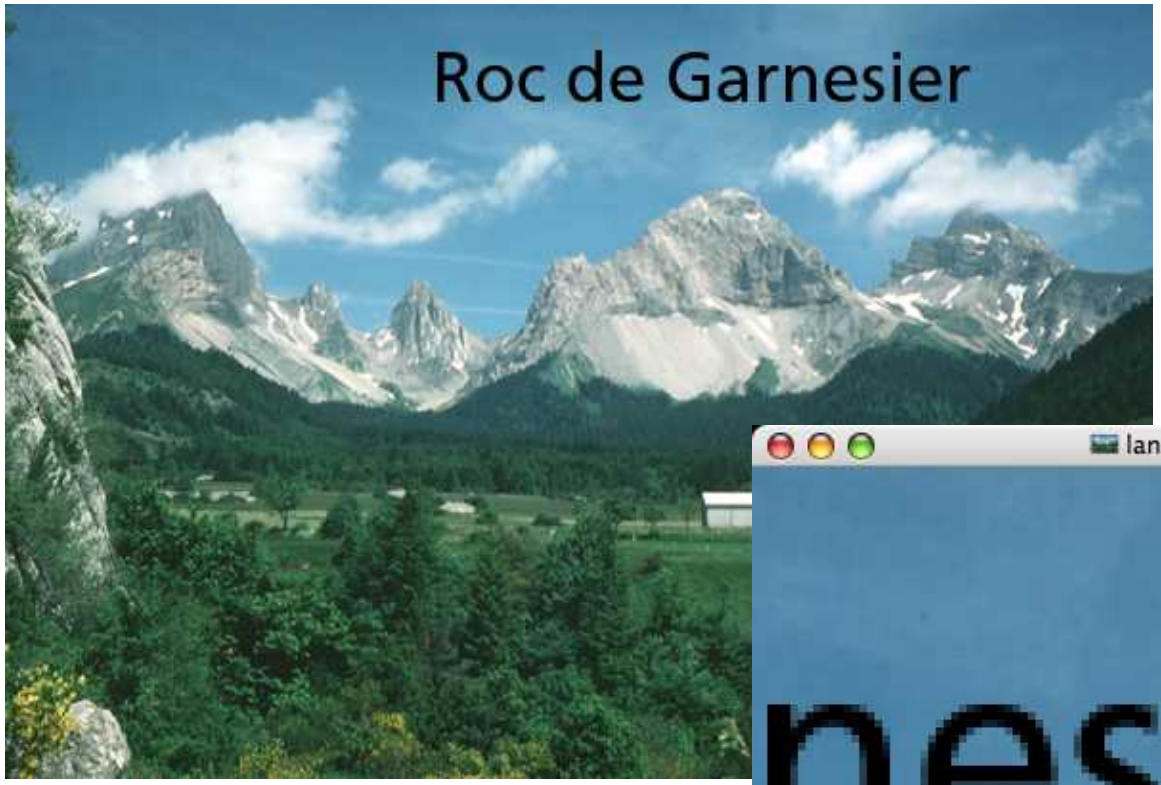

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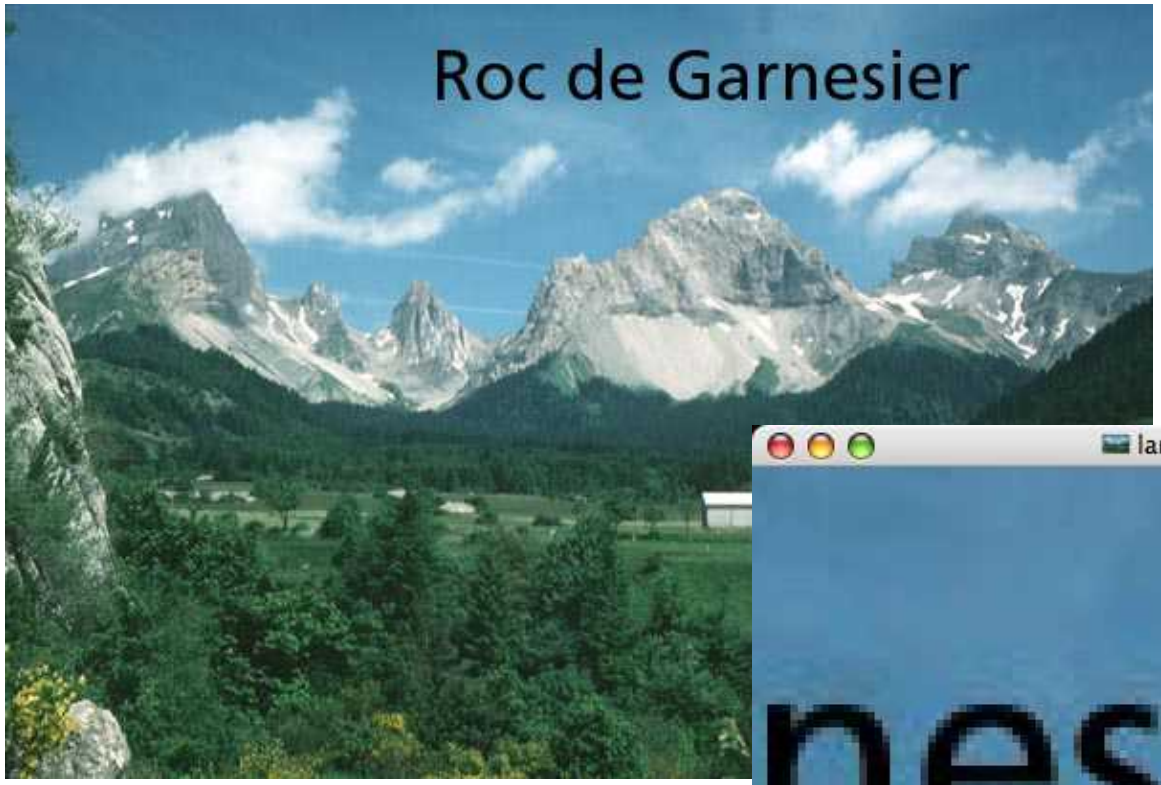

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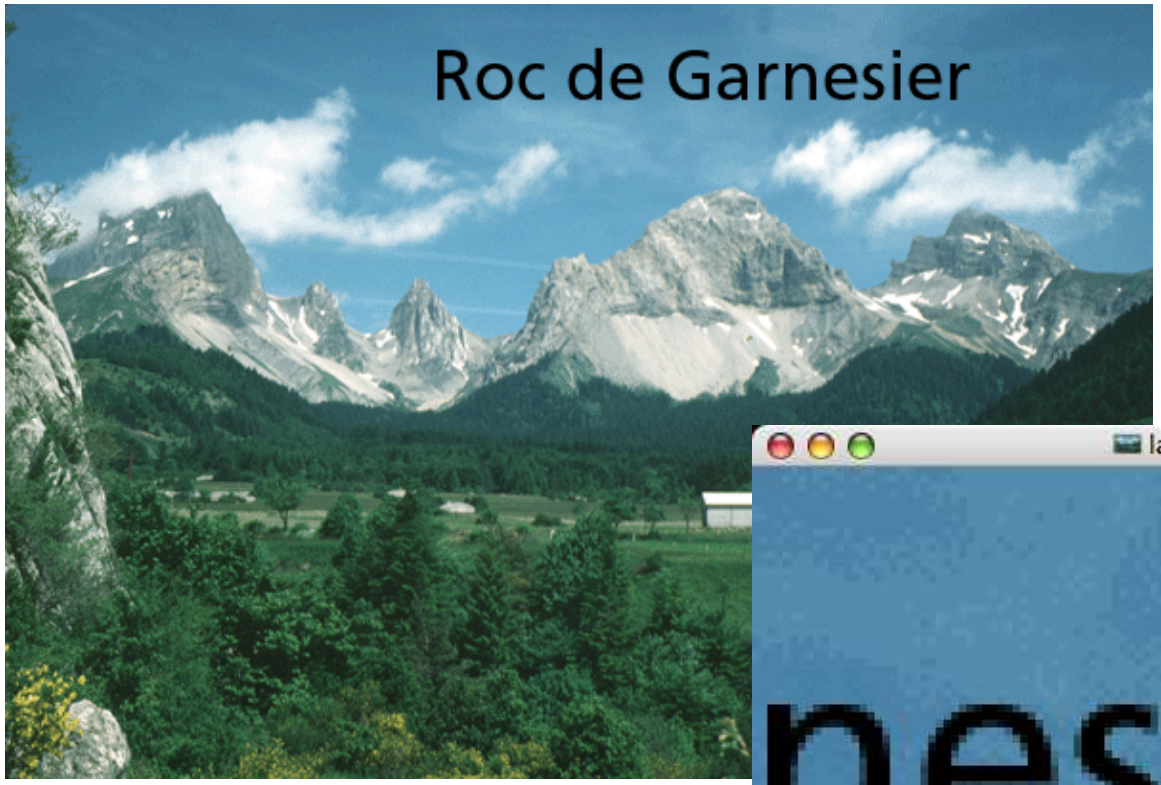

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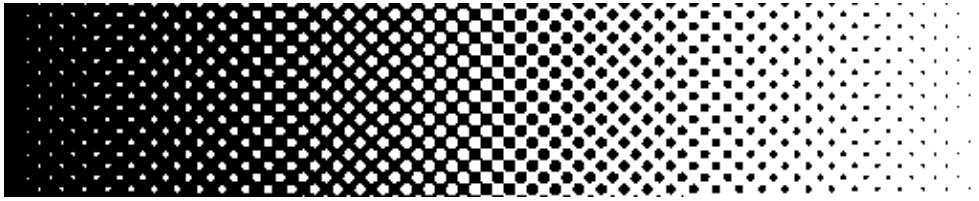

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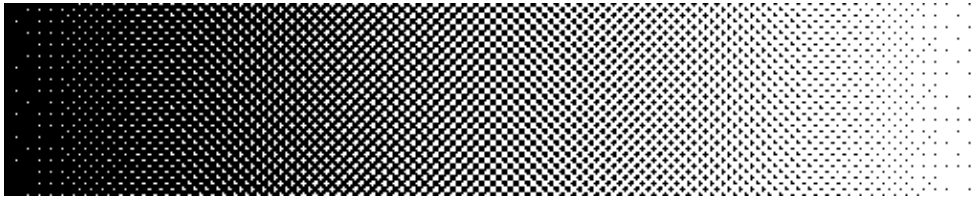

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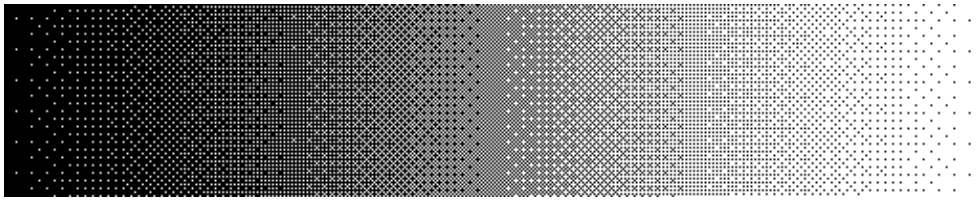

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1. page entwerfen (html)
   in text editor schreiben - anschauen in browser

2. photo einsetzen

3. cascading style sheet verwenden

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auch MSWord, Powerpoint, key note, etc. - als html speichern
statt HTML, PDF herstellen

web site = content + structure

Gesamtstruktur /-werk

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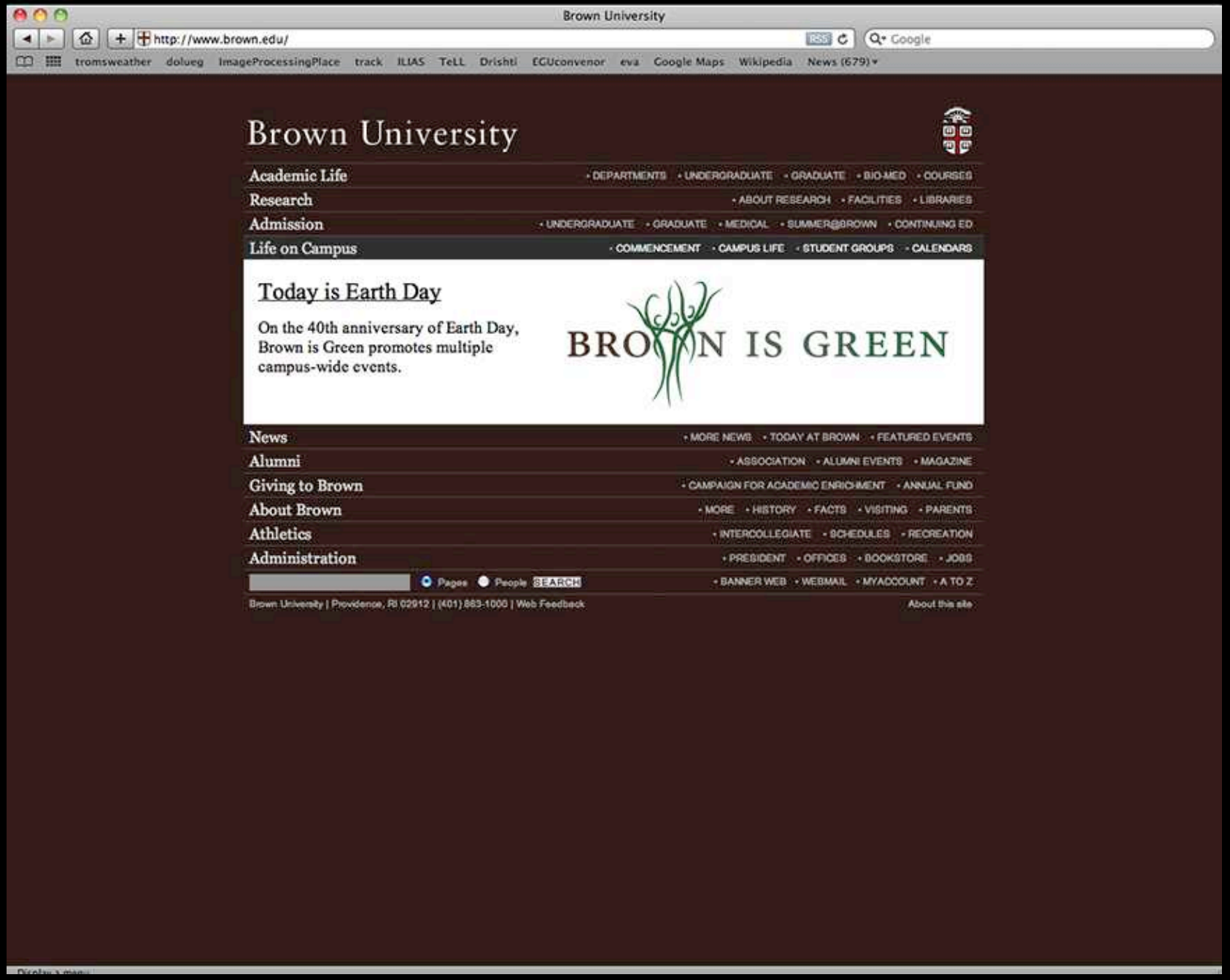
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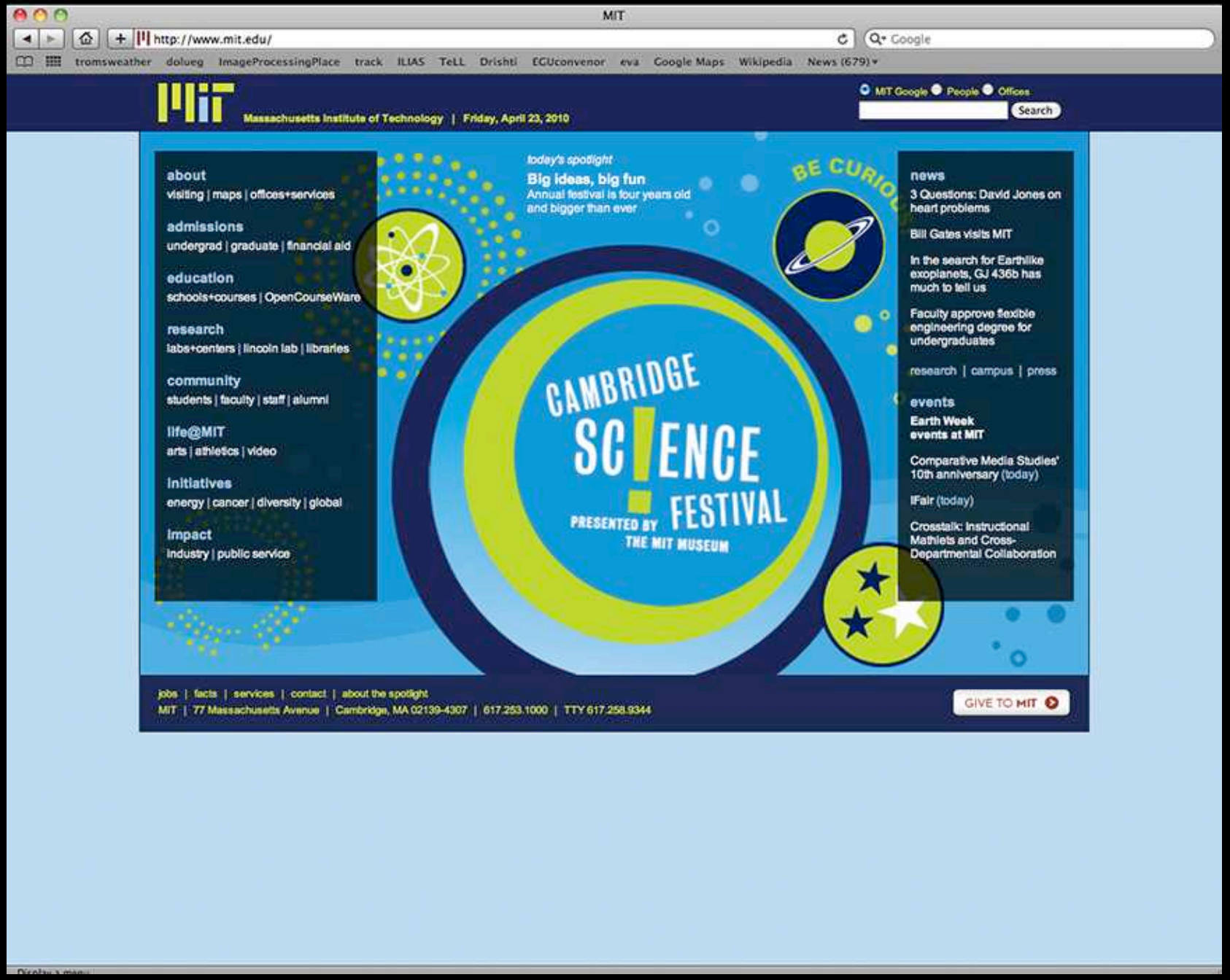
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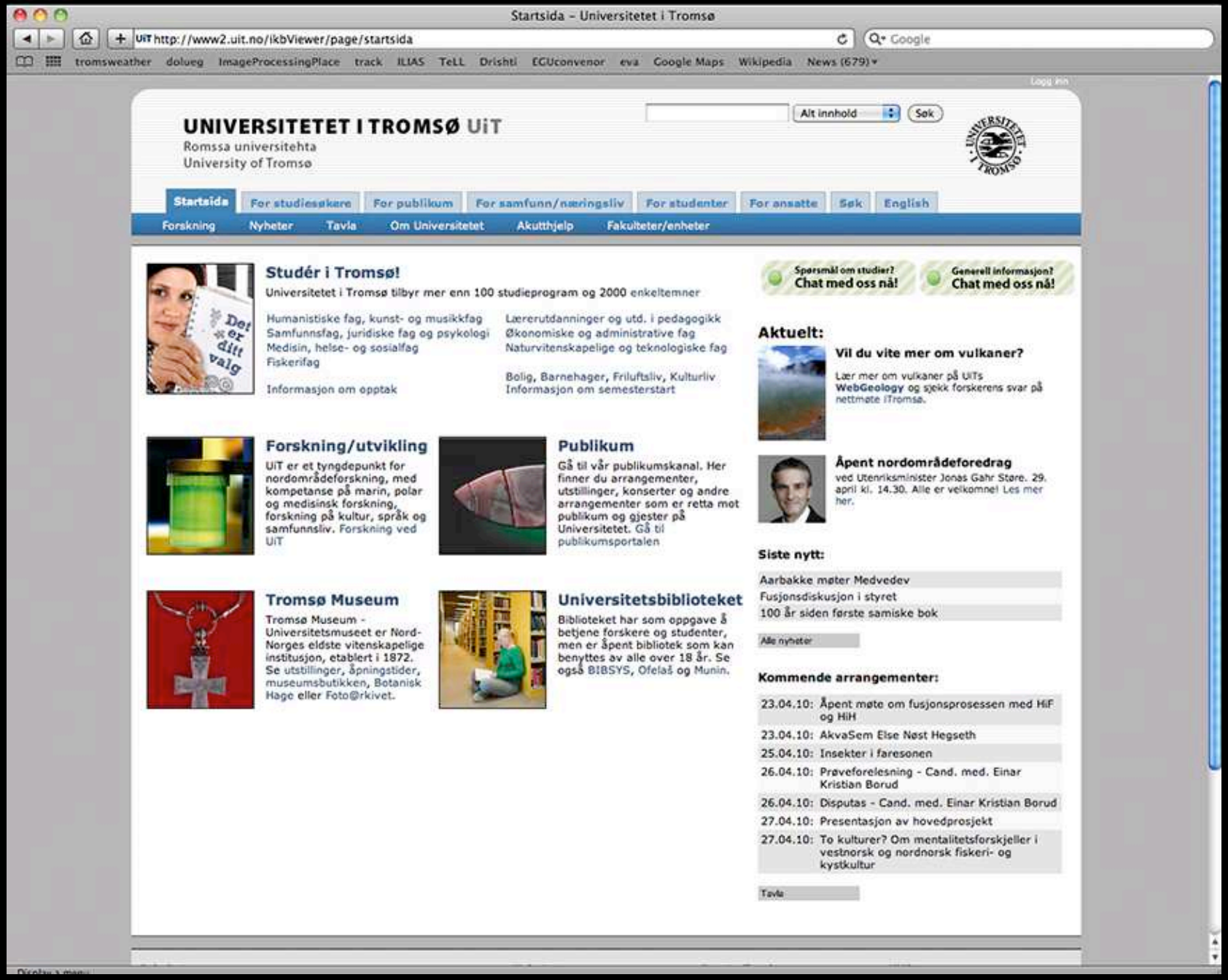
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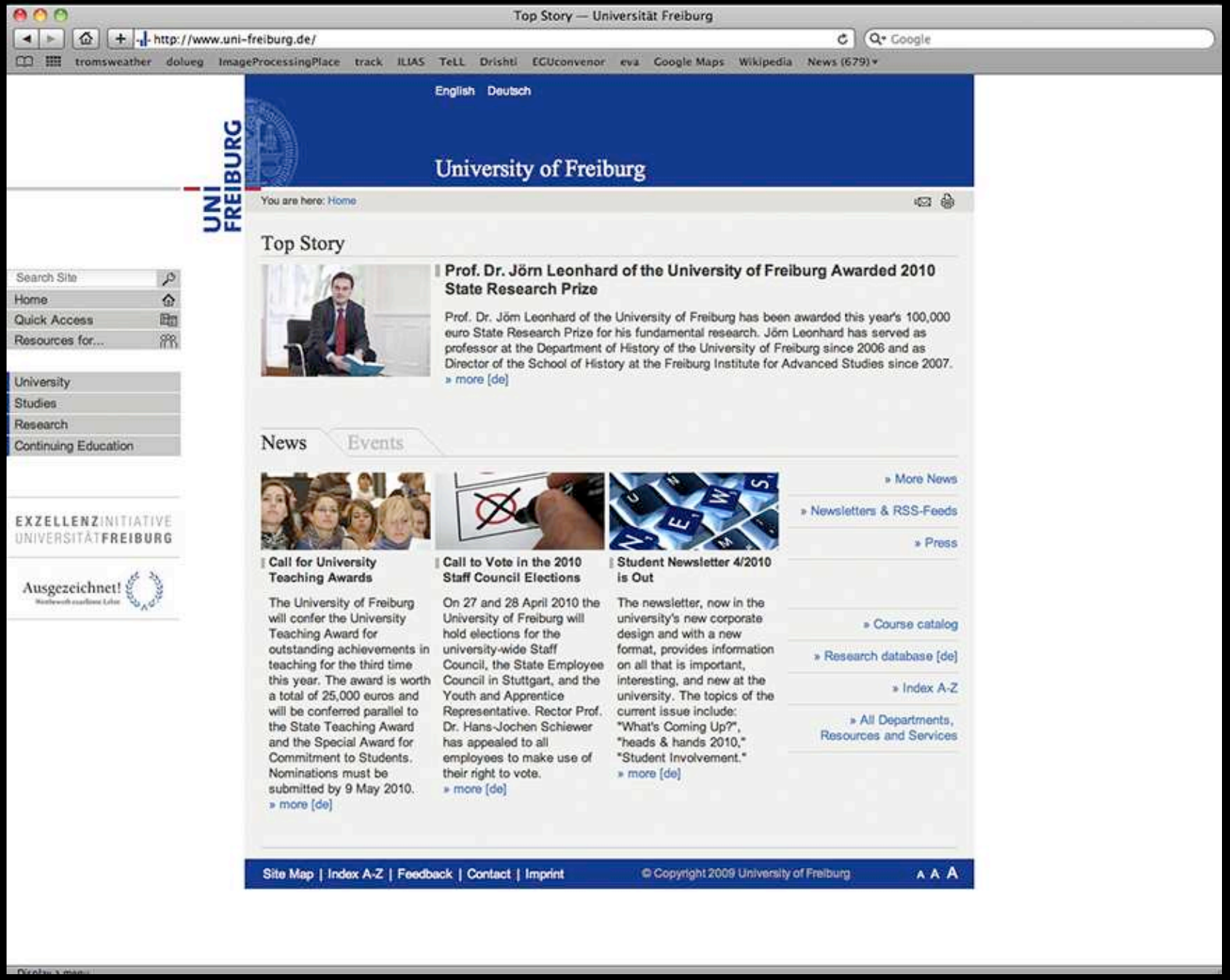
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Prof. Dr. Jörn Leonhard of the University of Freiburg has been awarded this year's 100,000 euro State Research Prize for his fundamental research. Jörn Leonhard has served as professor at the Department of History of the University of Freiburg since 2006 and as Director of the School of History at the Freiburg Institute for Advanced Studies since 2007.
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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.
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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.
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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."
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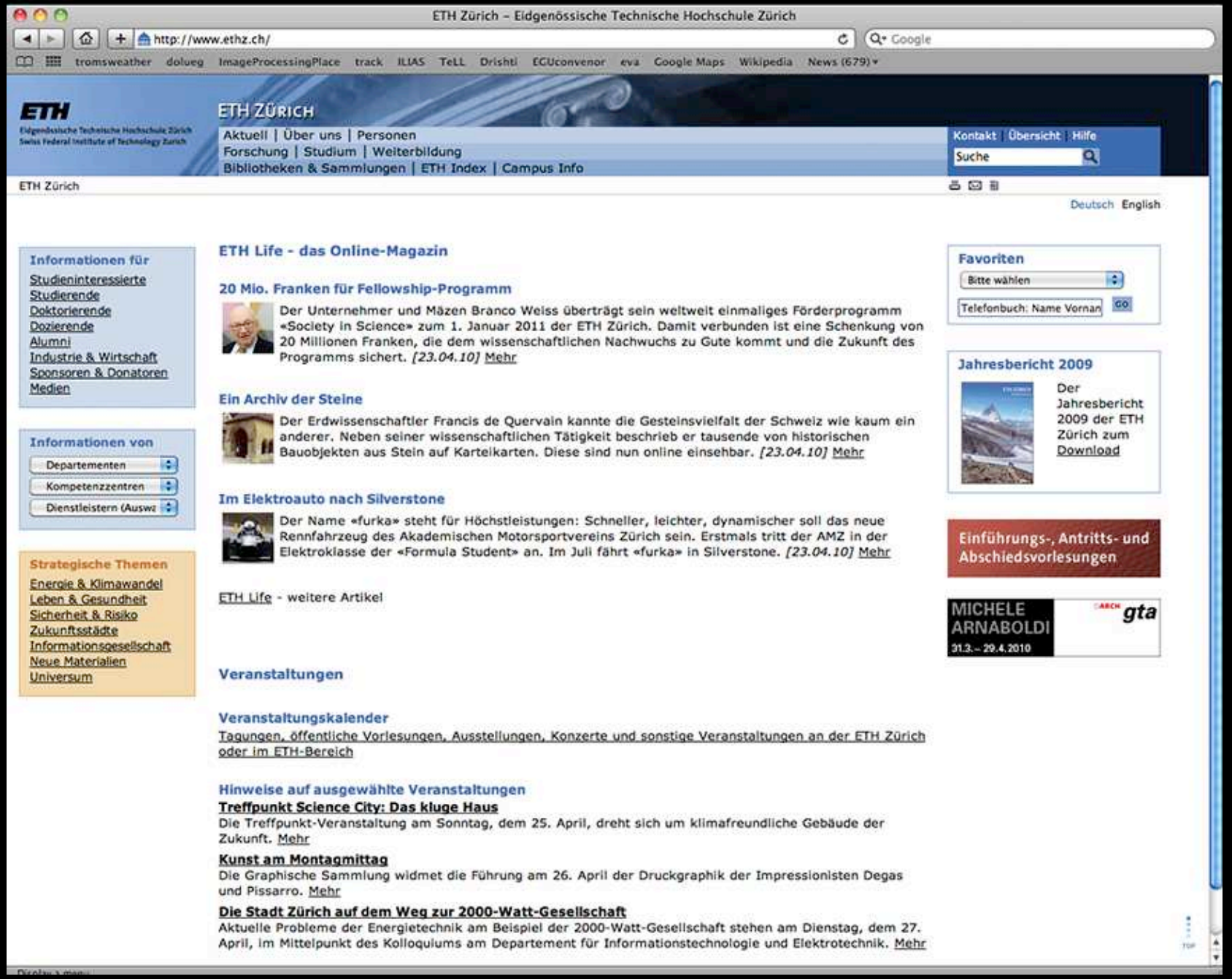
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20 Mio. Franken für Fellowship-Programm
Der Unternehmer und Mäzen Branco Weiss überträgt sein weltweit einmaliges Förderprogramm «Society in Science» zum 1. Januar 2011 der ETH Zürich. Damit verbunden ist eine Schenkung von 20 Millionen Franken, die 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
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Die Treffpunkt-Veranstaltung am Sonntag, dem 25. April, dreht sich um klimafreundliche Gebäude der Zukunft. Mehr
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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
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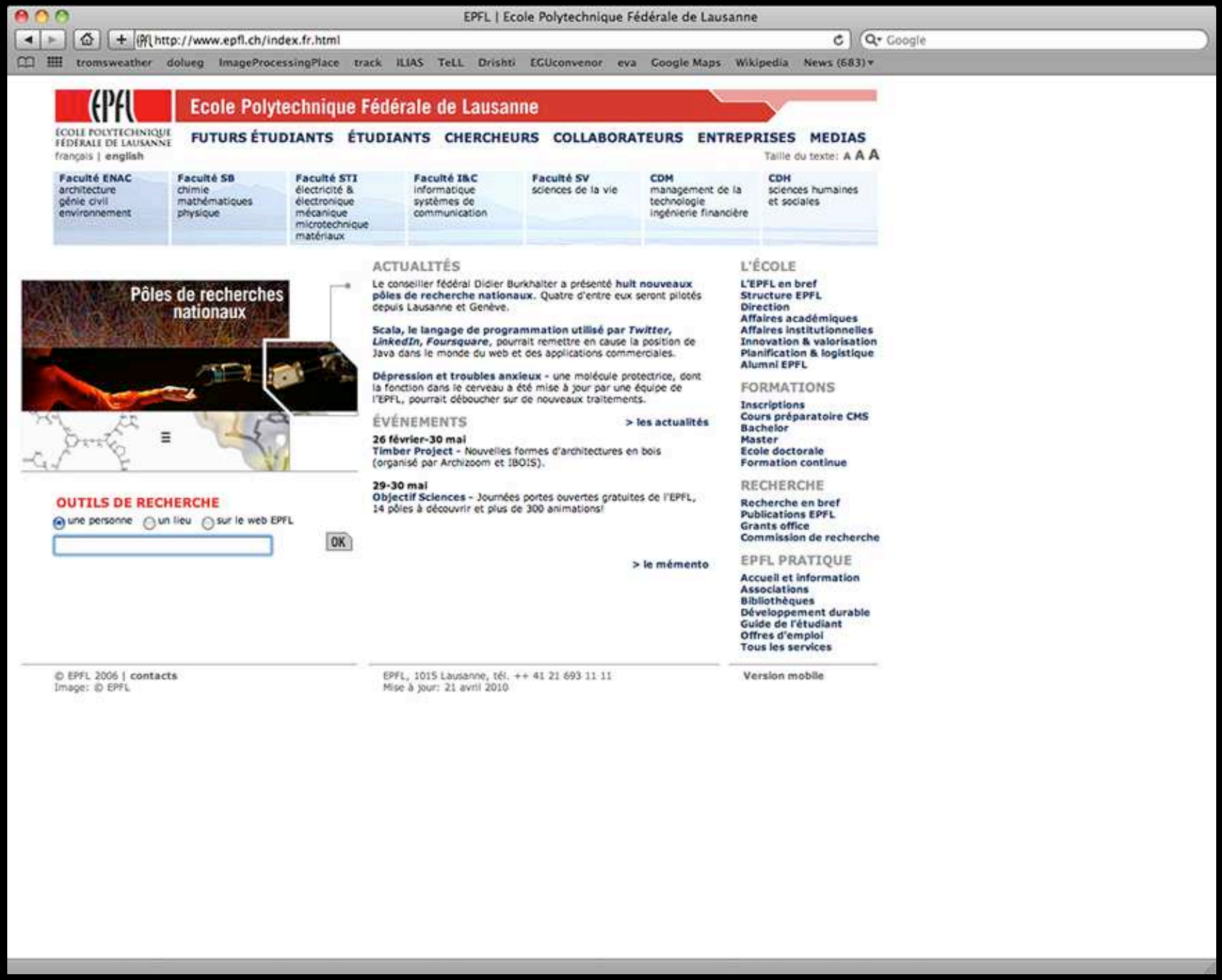
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Faculté ENAC architecture génie civil environnement
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ACTUALITÉS
Le conseiller fédéral Didier Burkhalter a présenté huit nouveaux pôles de recherche nationaux. Quatre d'entre eux seront pilotés depuis 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.
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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!
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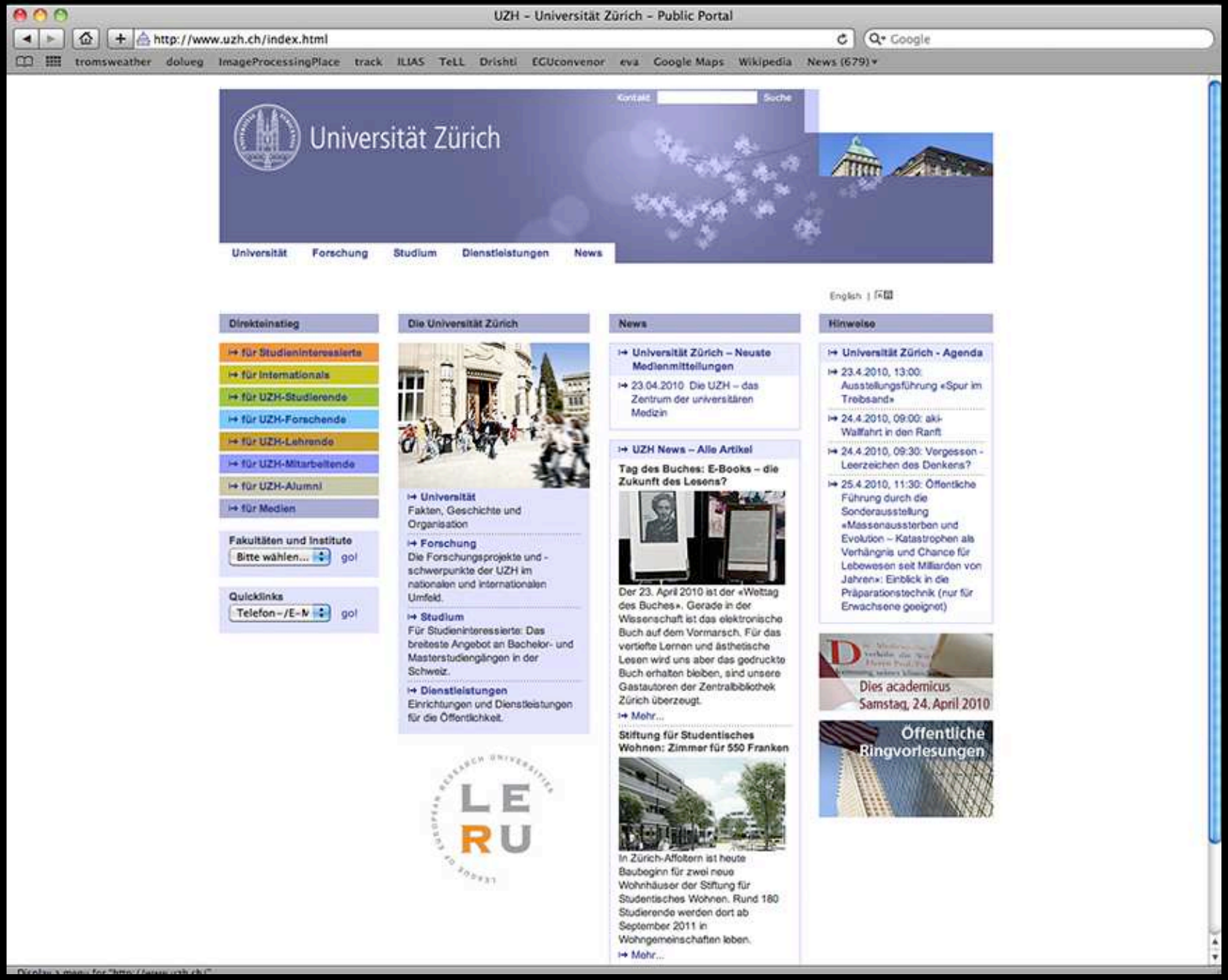
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Die Forschungsprojekte und -schwerpunkte der UZH im nationalen und internationalen Umfeld.
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Für Studieninteressierte: Das breiteste Angebot an Bachelor- und Masterstudiengängen in der Schweiz.
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Universität 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?
Der 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: akl-Wallfahrt in den Ranft
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)
Dies academicus
Samstag, 24. April 2010
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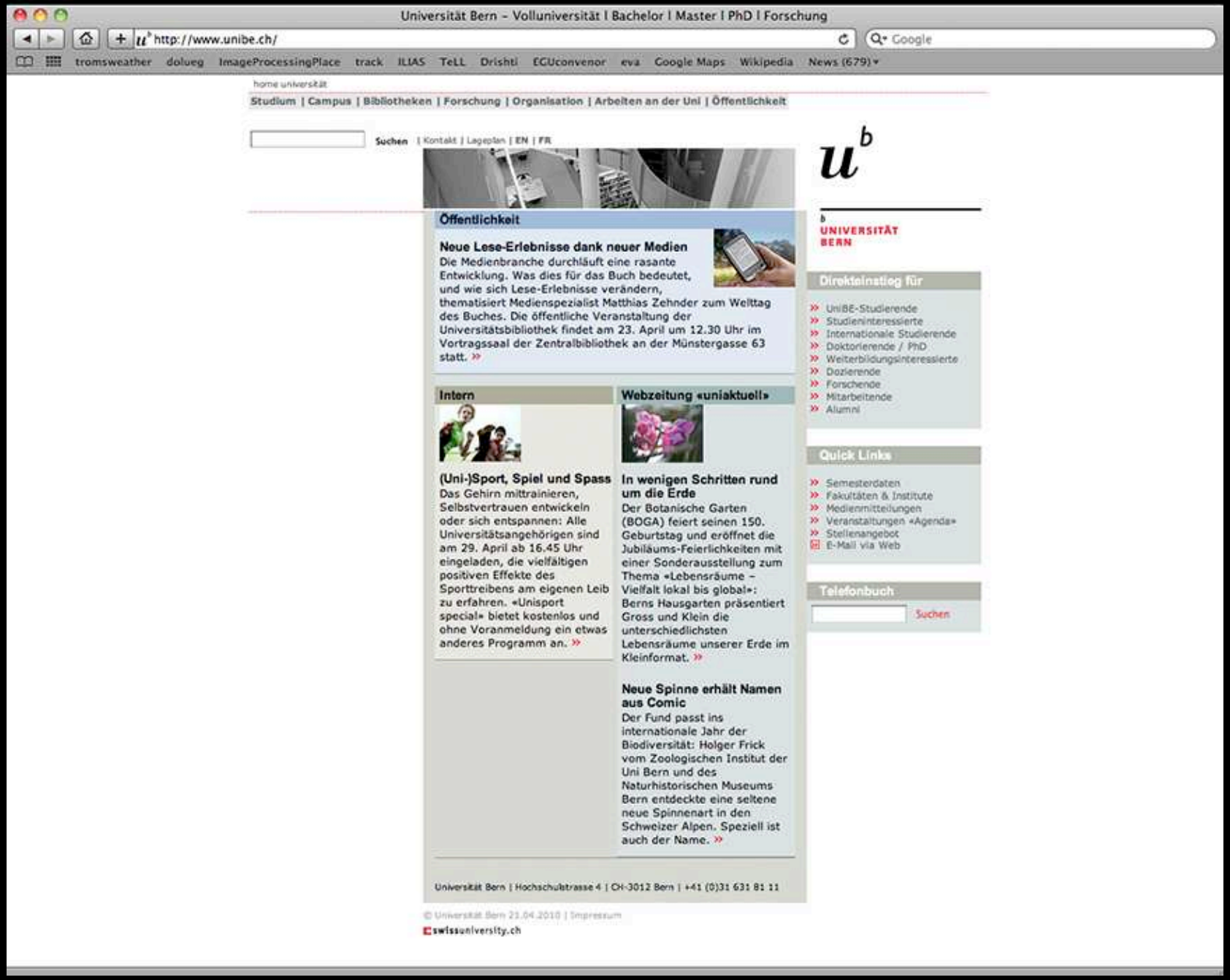
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Öffentlichkeit
Neue Lese-Erlebnisse dank neuer Medien
Die Medienbranche durchläuft eine rasante Entwicklung. Was dies für das Buch bedeutet, und wie sich Lese-Erlebnisse verändern, thematisiert Medienspezialist Matthias Zehnder zum Welttag des Buches. Die öffentliche Veranstaltung der Universitätsbibliothek findet am 23. April um 12.30 Uhr im Vortragssaal der Zentralbibliothek an der Münstergasse 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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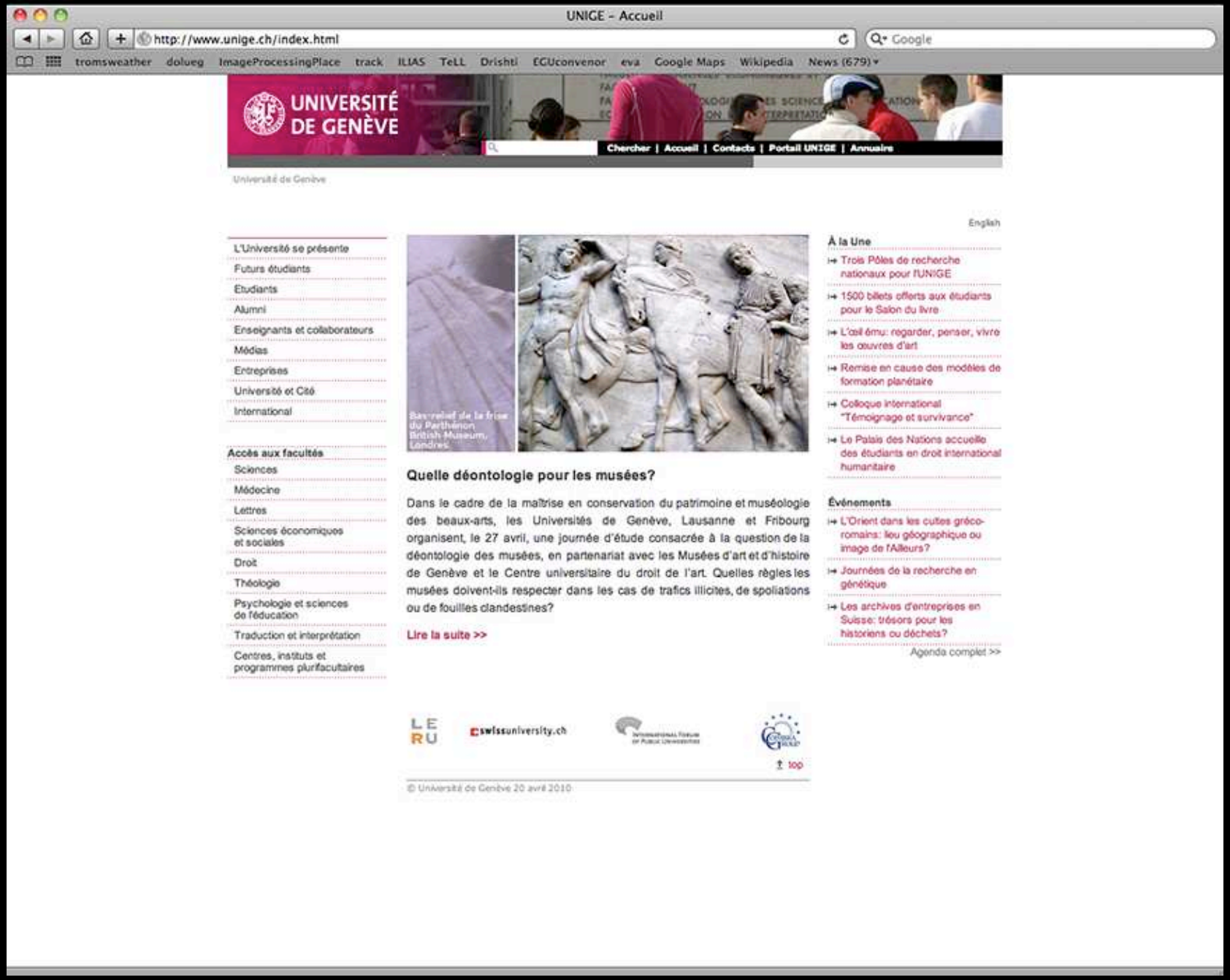
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Centres, instituts et programmes plurifacultaires
Bas-relief de la frise du Parthénon, British Museum, Londres
Quelle déontologie pour les musées?
Dans le cadre de la maîtrise en conservation du patrimoine et muséologie des beaux-arts, les Universités 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?
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Trois Pôles de recherche nationaux pour l'UNIGE
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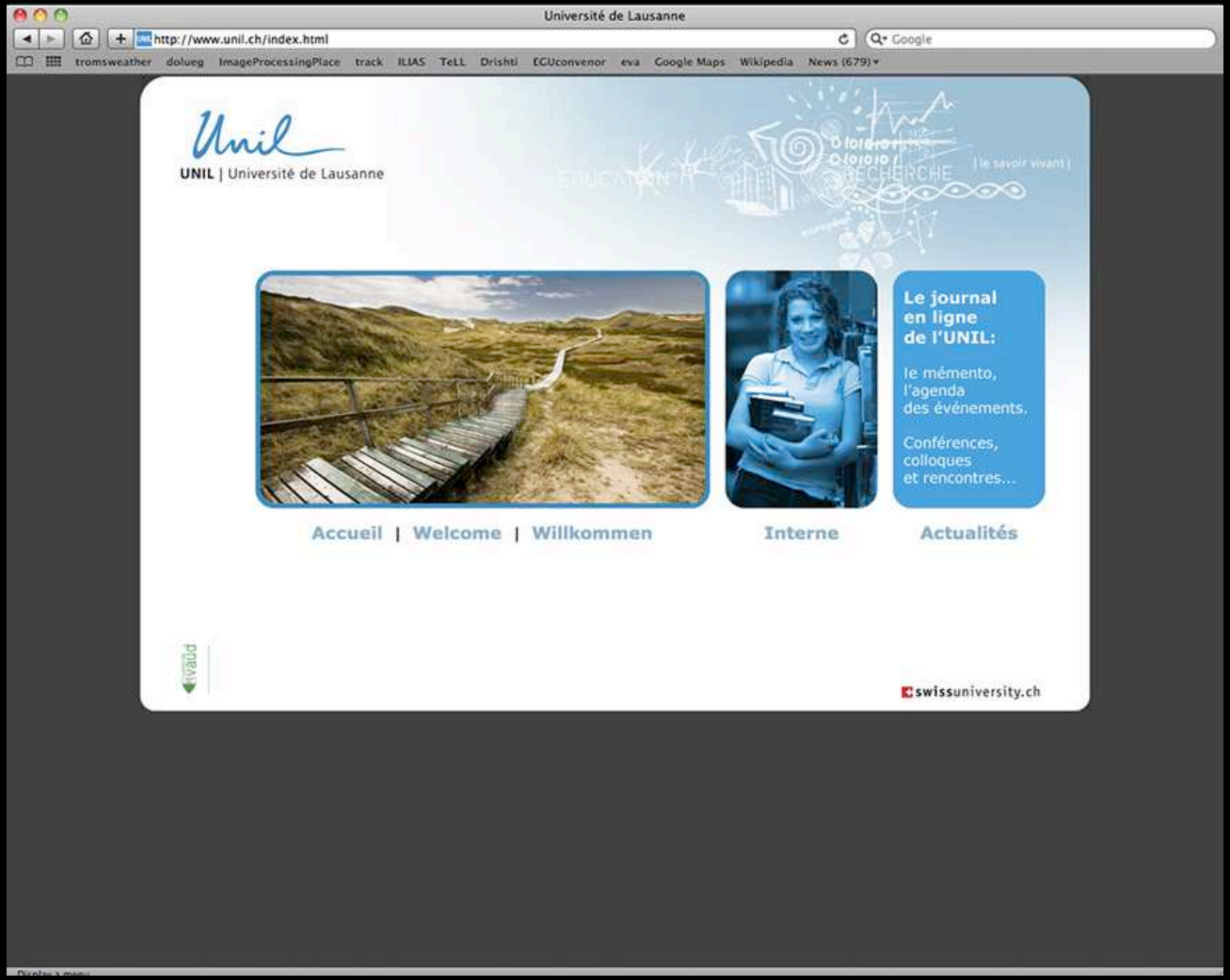
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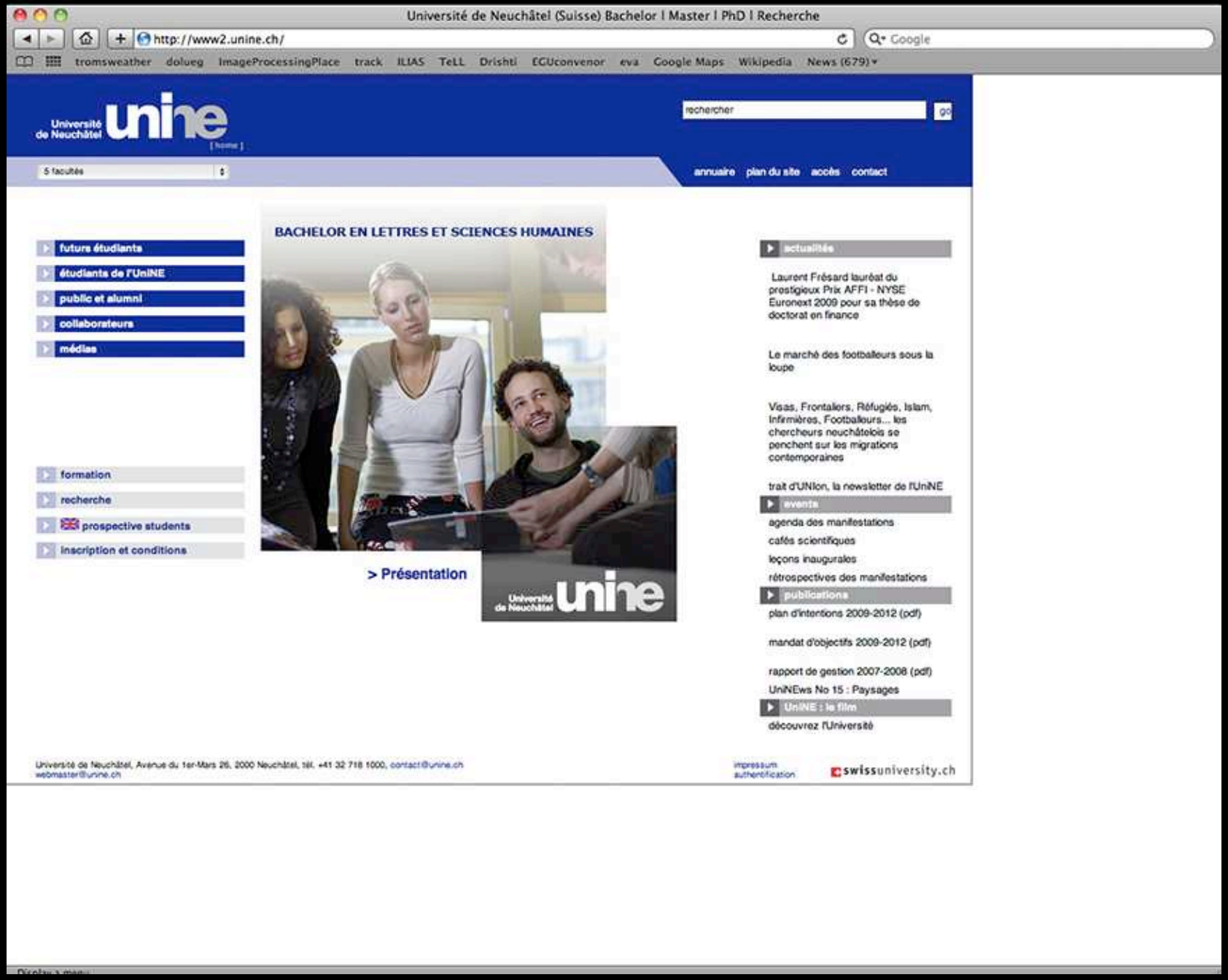
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Le marché des footballeurs sous la loupe
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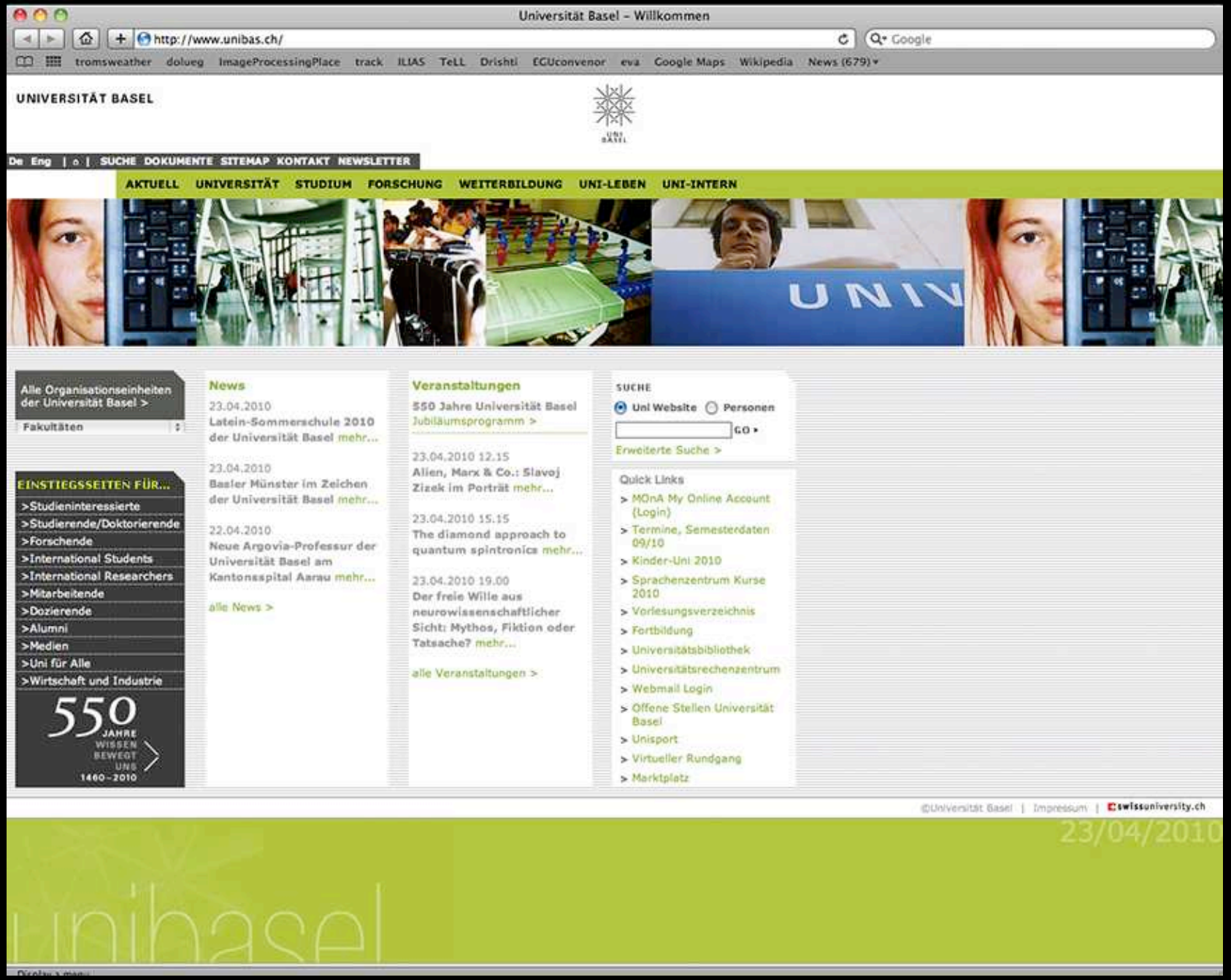
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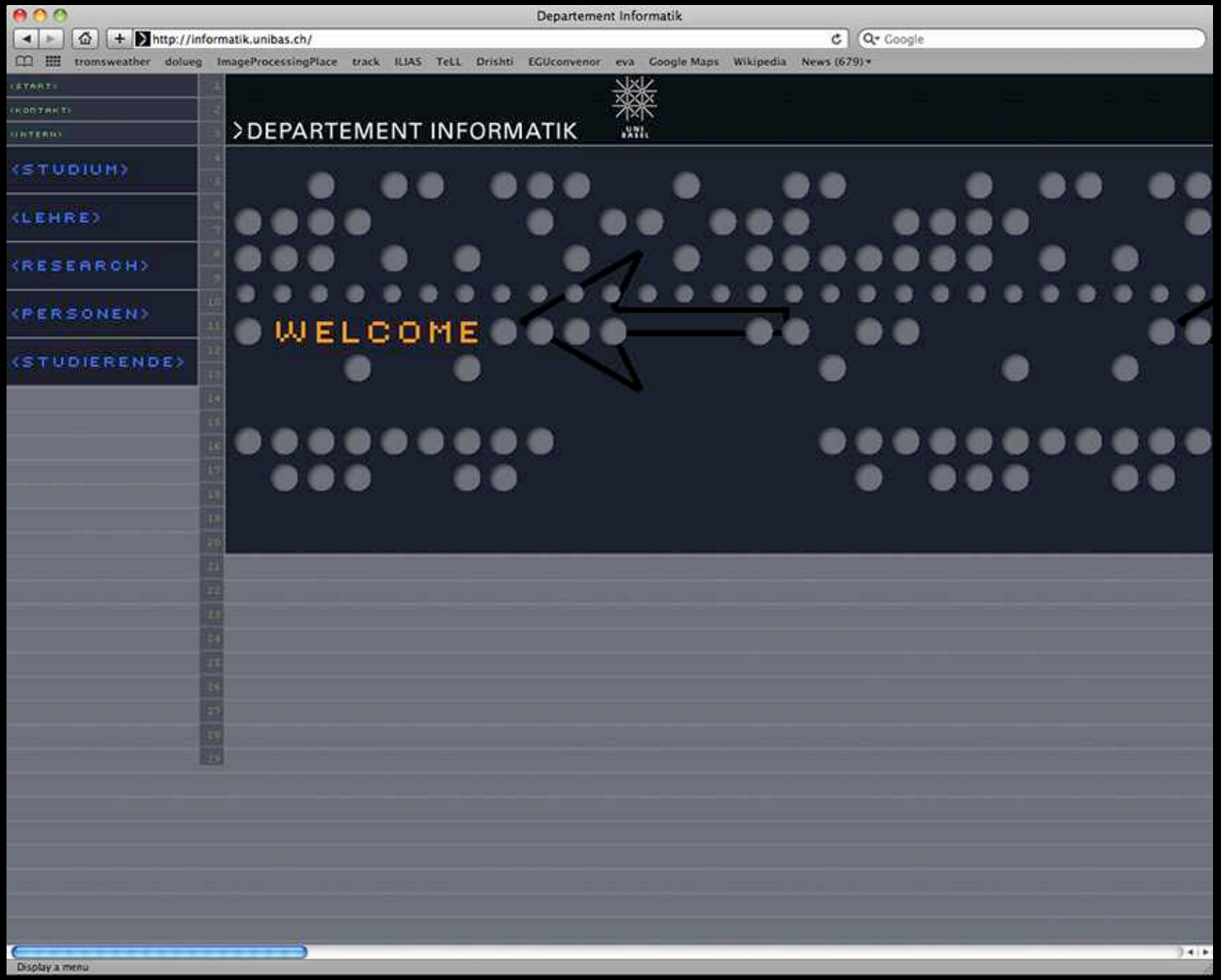
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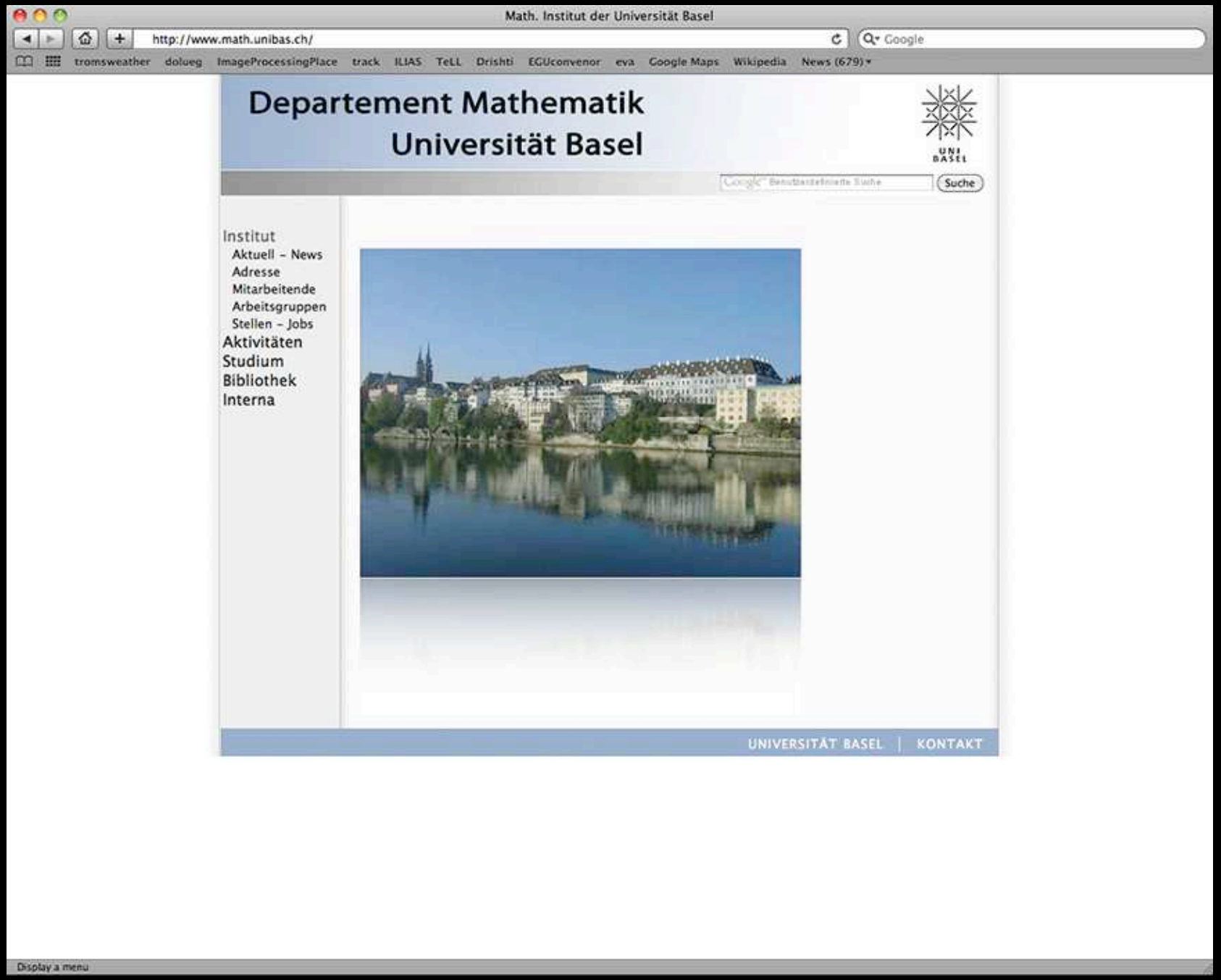
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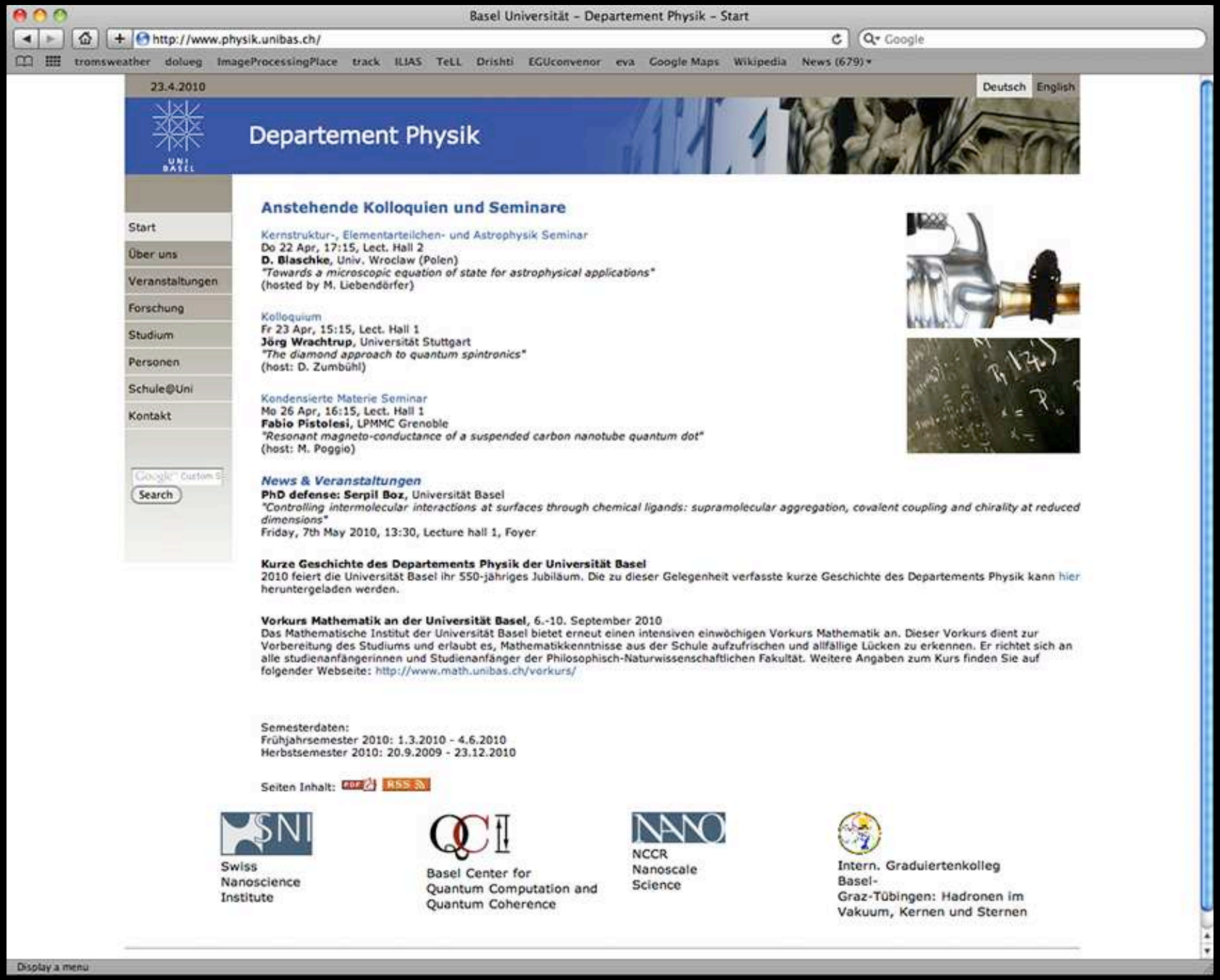
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D. Blaschke, Univ. Wroclaw (Polen)
"Towards a microscopic equation of state for astrophysical applications"
(hosted by M. Liebendörfer)
Kolloquium
Fr 23 Apr, 15:15, Lect. Hall 1
Jörg Wrachtrup, Universität Stuttgart
"The diamond approach to quantum spintronics"
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Mo 26 Apr, 16:15, Lect. Hall 1
Fabio Pistolesi, LPMMC 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/
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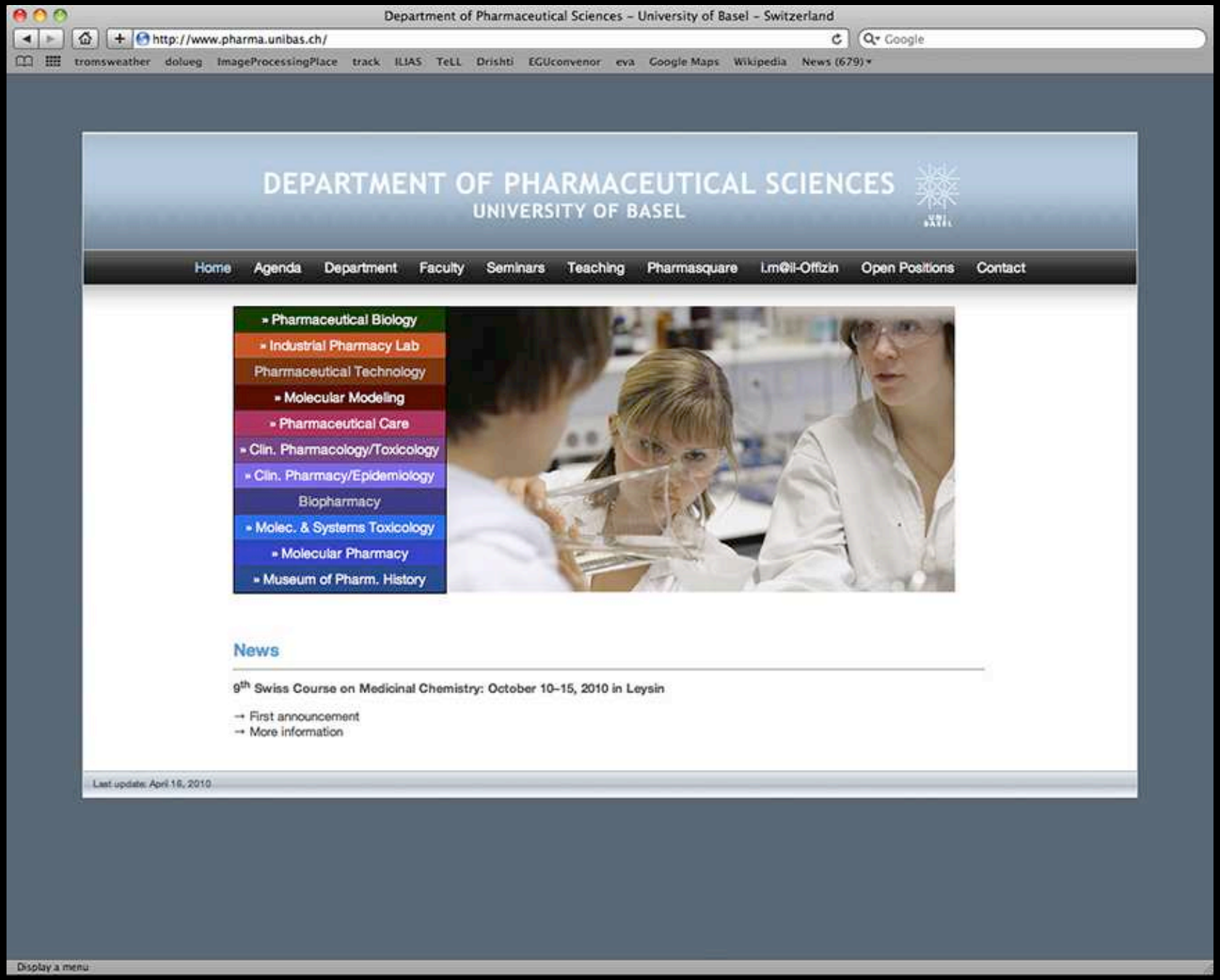
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→ First announcement
→ More information
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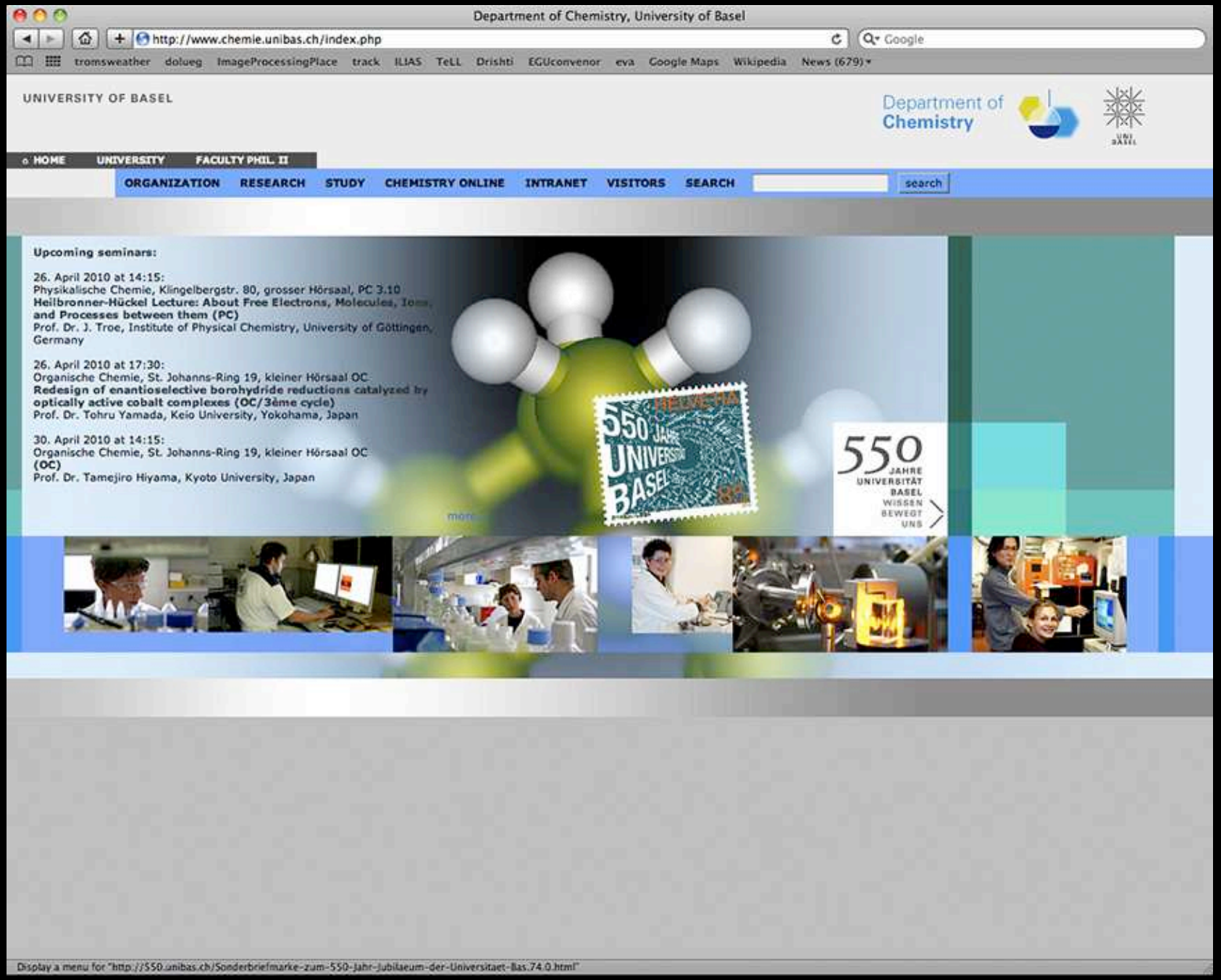
Department of Chemistry, University of Basel
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Upcoming seminars:
26. April 2010 at 14:15:
Physikalische Chemie, Klingelbergstr. 80, grosser Hörsaal, PC 3.10
Heilbronner-Hückel Lecture: About Free Electrons, Molecules, Ions, and Processes between them (PC)
Prof. Dr. J. Troe, 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
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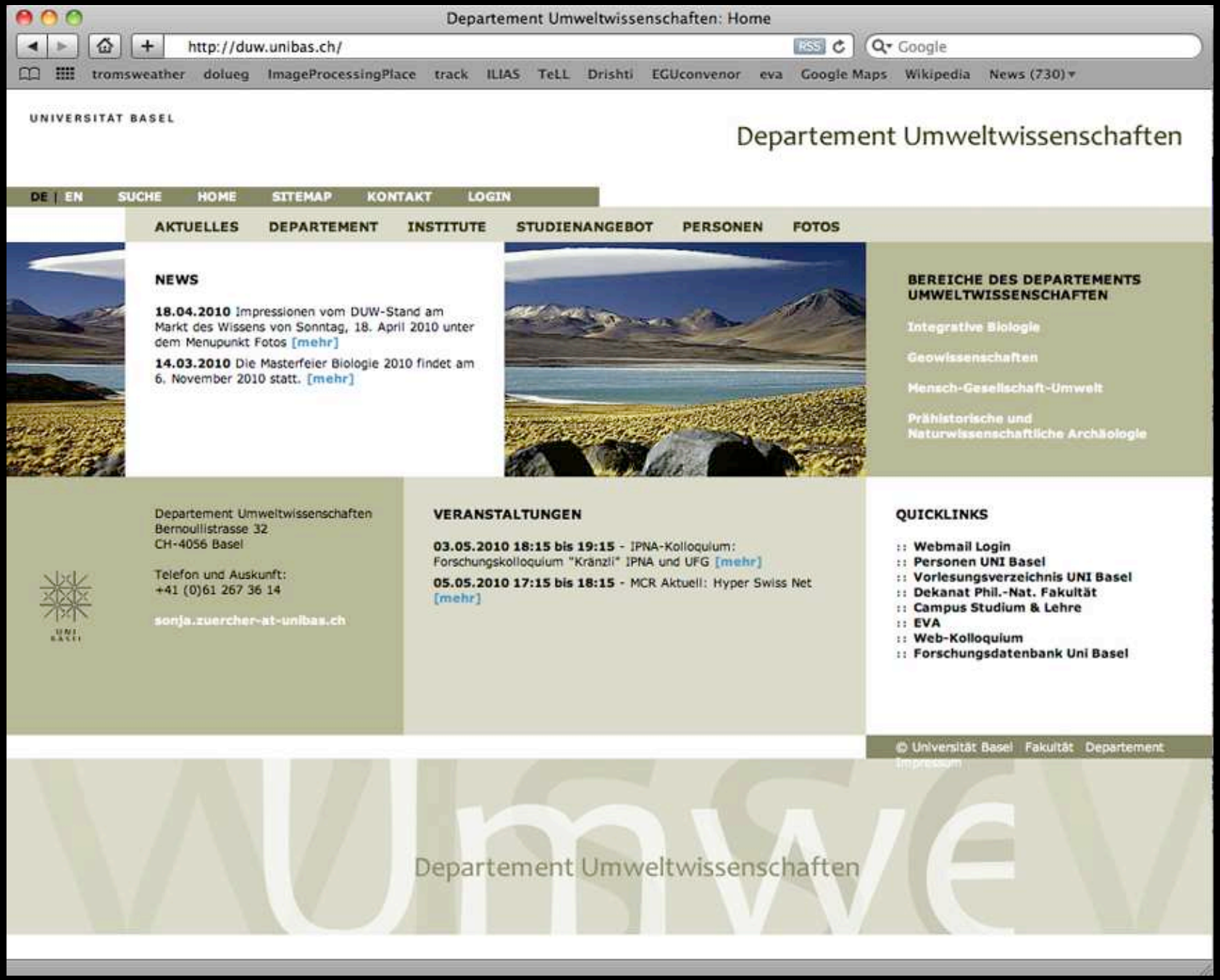
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18.04.2010 Impressionen vom DUW-Stand am Markt des Wissens von Sonntag, 18. April 2010 unter dem Menupunkt Fotos [mehr]
14.03.2010 Die Masterfeier Biologie 2010 findet am 6. November 2010 statt. [mehr]
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Integrative Biologie
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Departement Umweltwissenschaften
Bernoullistrasse 32
CH-4056 Basel
Telefon und Auskunft:
+41 (0)61 267 36 14
sonja.zuercher-at-unibas.ch
VERANSTALTUNGEN
03.05.2010 18:15 bis 19:15 - IPNA-Kolloquium: Forschungskolloquium "Kränzli" IPNA und UFG [mehr]
05.05.2010 17:15 bis 18:15 - MCR Aktuell: Hyper Swiss Net [mehr]
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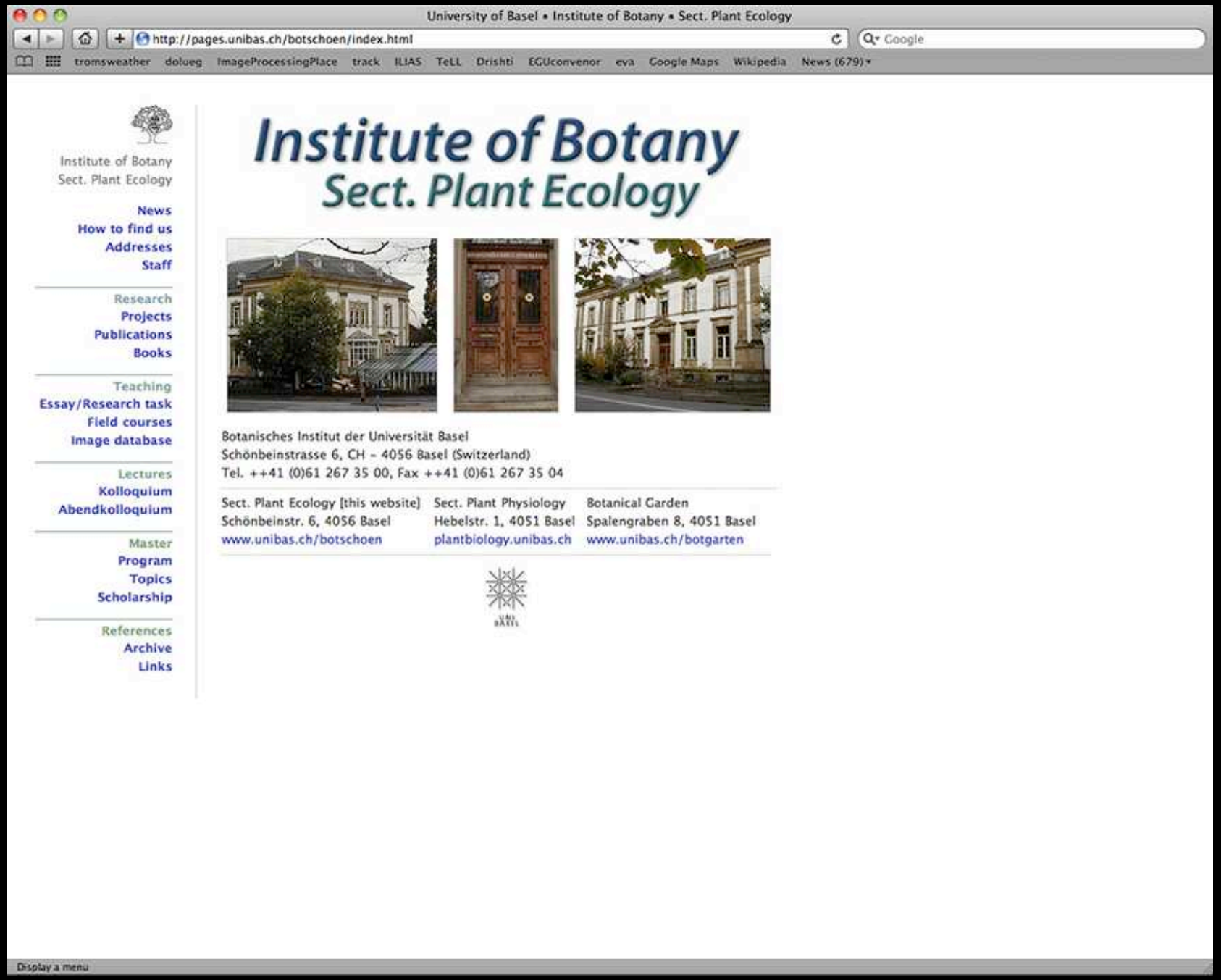
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Botanisches Institut der Universität Basel
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www.unibas.ch/botschoen
Sect. Plant Physiology
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plantbiology.unibas.ch
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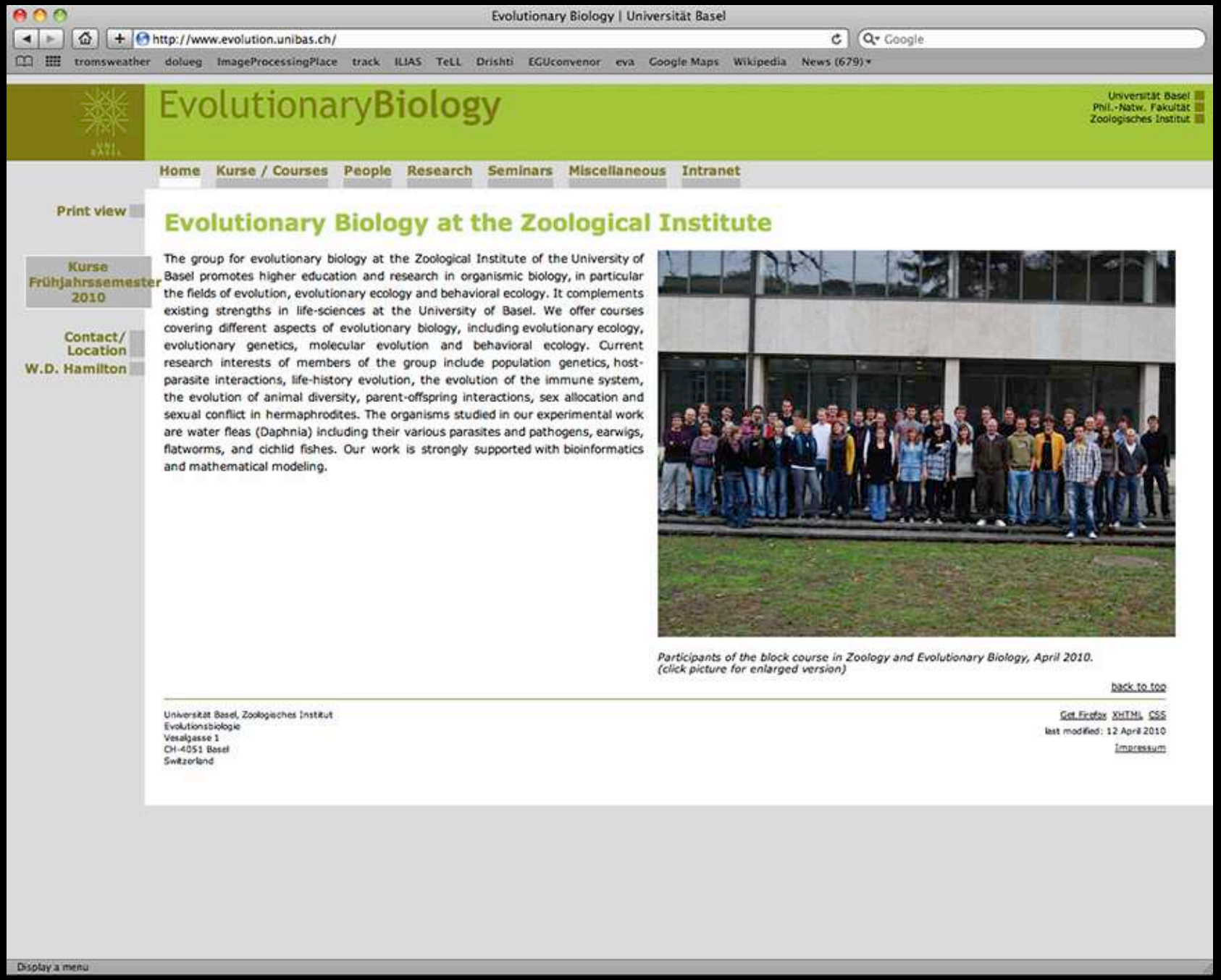
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W.D. Hamilton
Evolutionary Biology at the Zoological Institute
The group for evolutionary biology at the Zoological Institute of the University of Basel promotes higher education and research in organismic biology, in particular the fields of evolution, 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.
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Evolutionsbiologie
Vesalgasse 1
CH-4051 Basel
Switzerland
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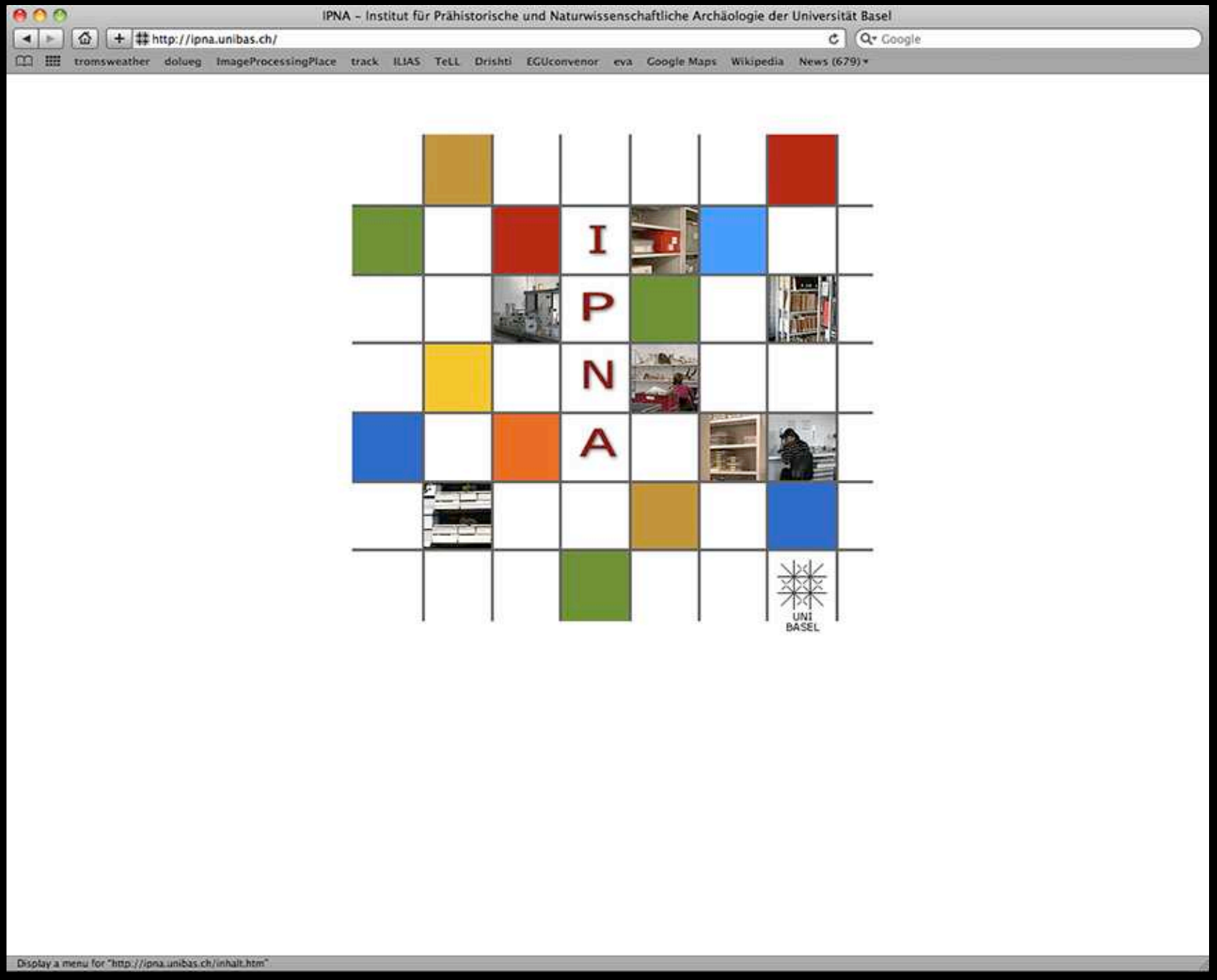
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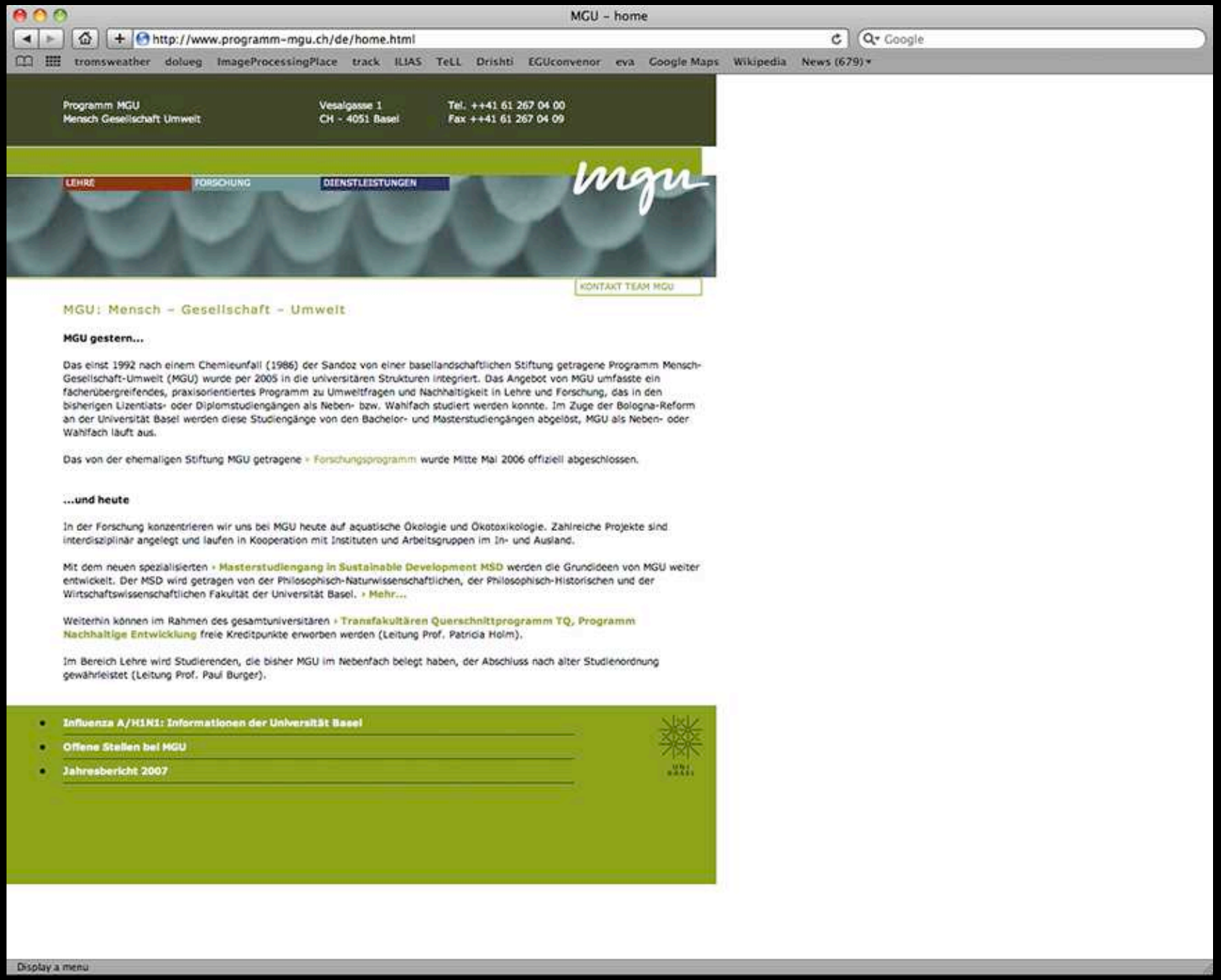
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MGU: Mensch – Gesellschaft – Umwelt
MGU gestern...
Das einst 1992 nach einem Chemieunfall (1986) der Sandoz von einer basellandschaftlichen Stiftung getragene Programm Mensch-Gesellschaft-Umwelt (MGU) wurde per 2005 in die universitären Strukturen integriert. Das Angebot von MGU umfasste ein fächerübergreifendes, praxisorientiertes Programm zu Umweltfragen und Nachhaltigkeit in Lehre und Forschung, das in den bisherigen Lizentiats- 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 Querschnittprogramm 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).
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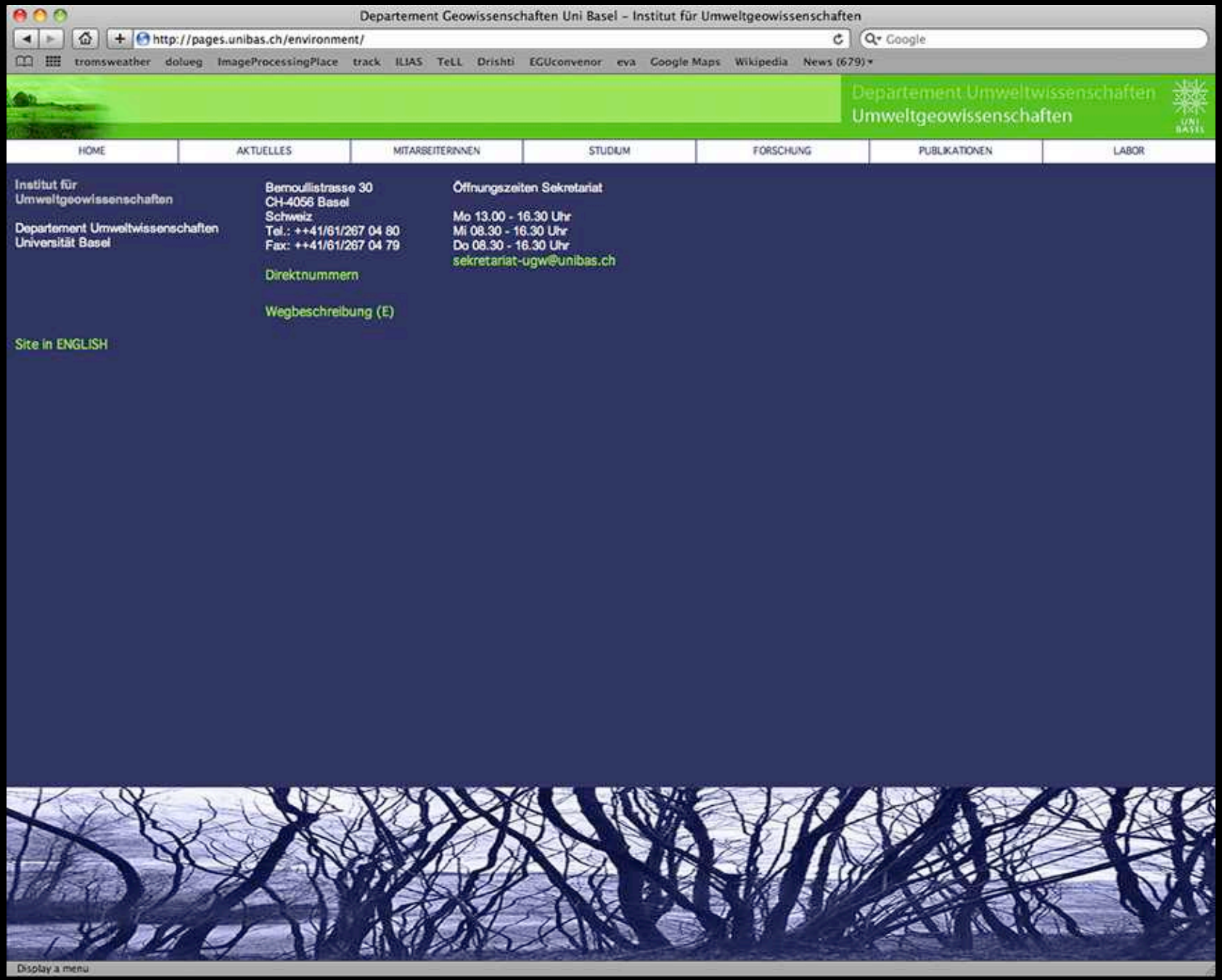

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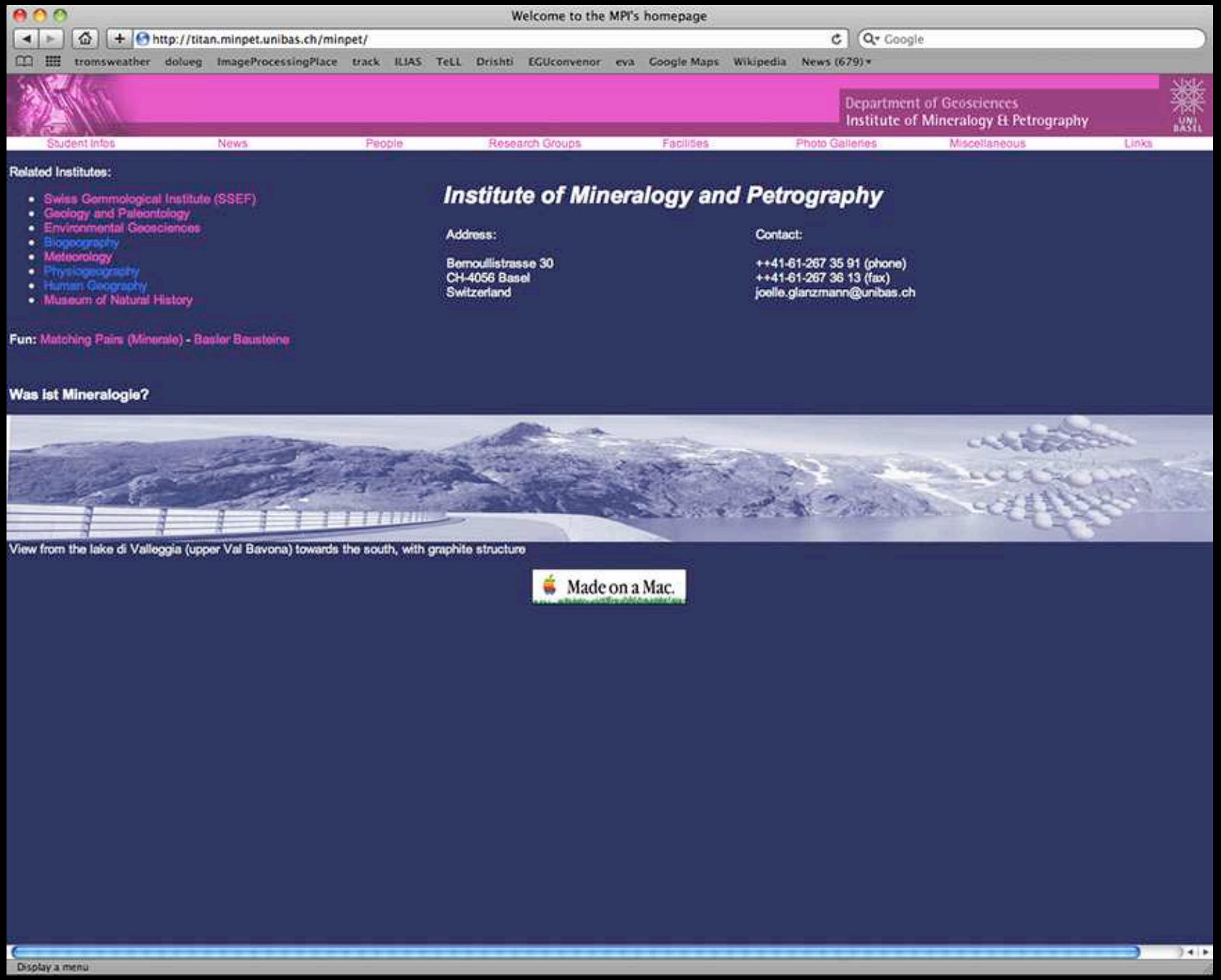

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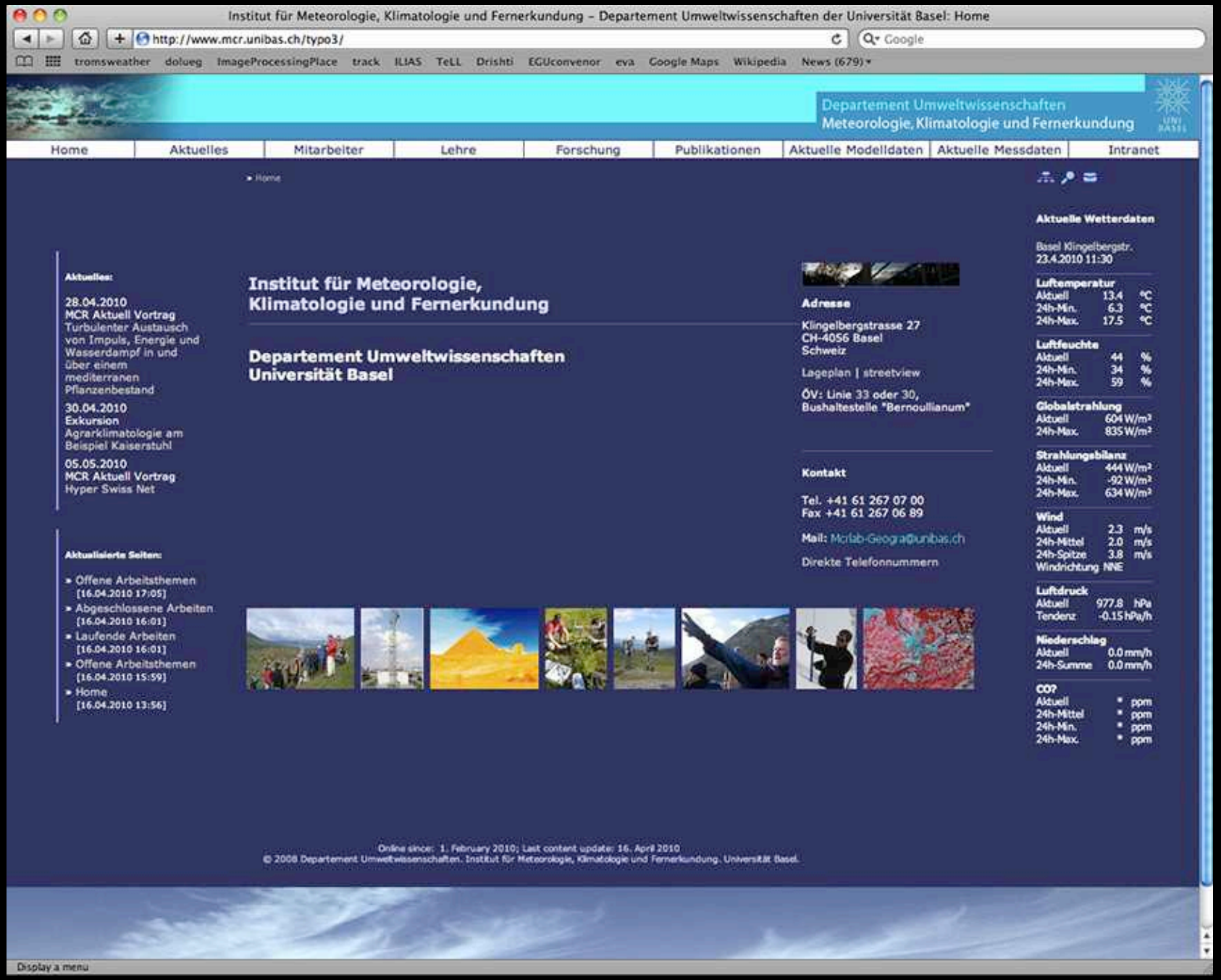

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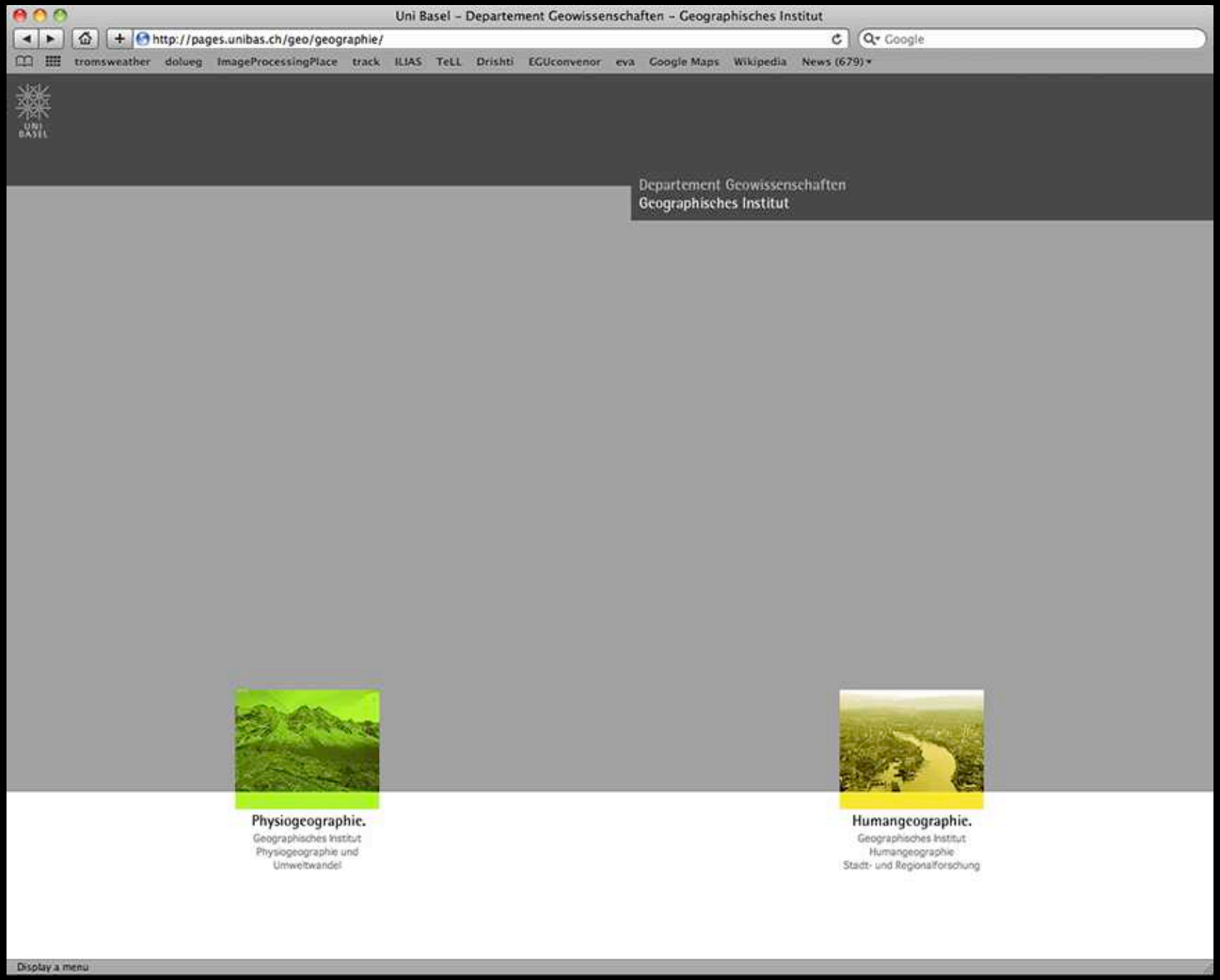

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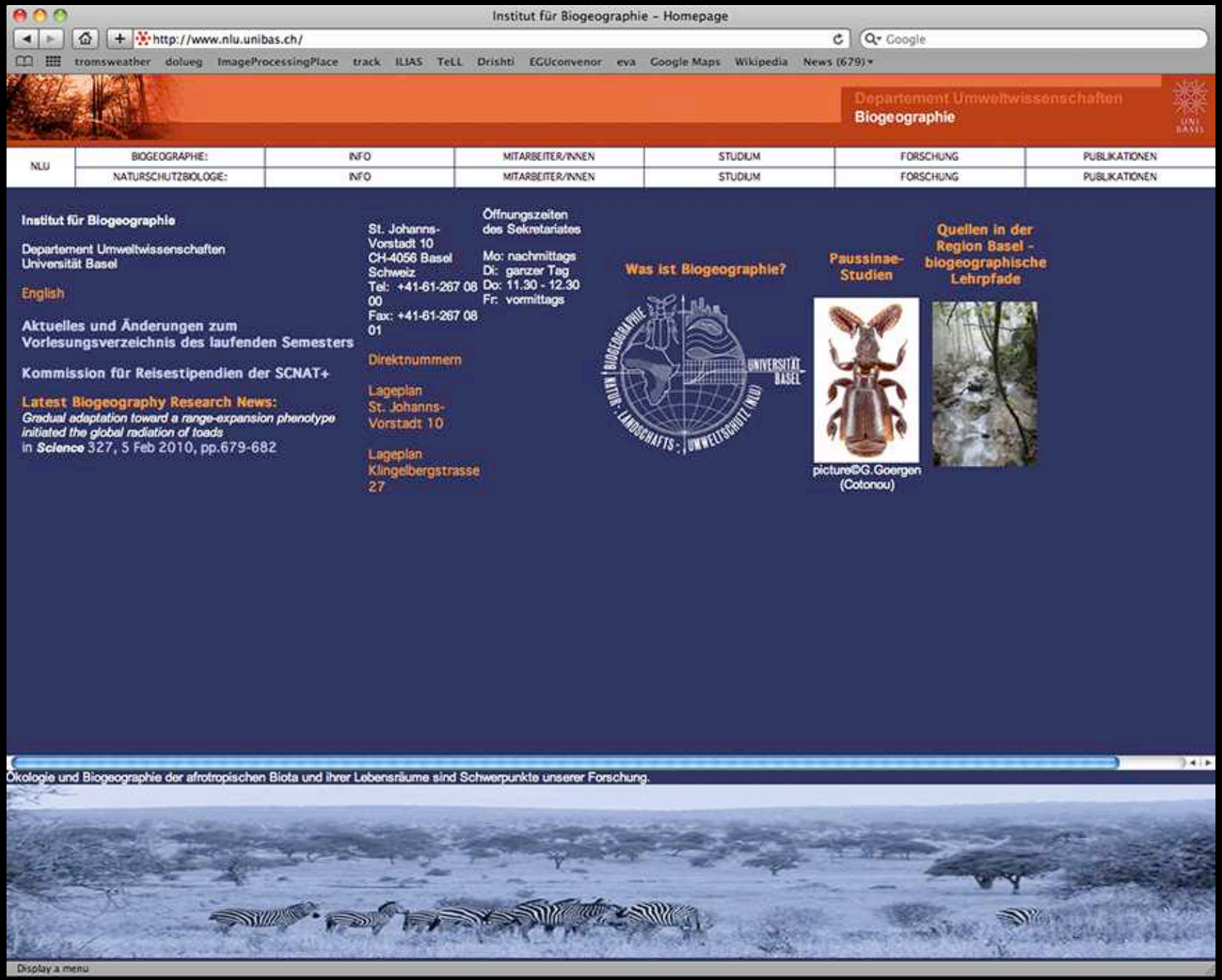

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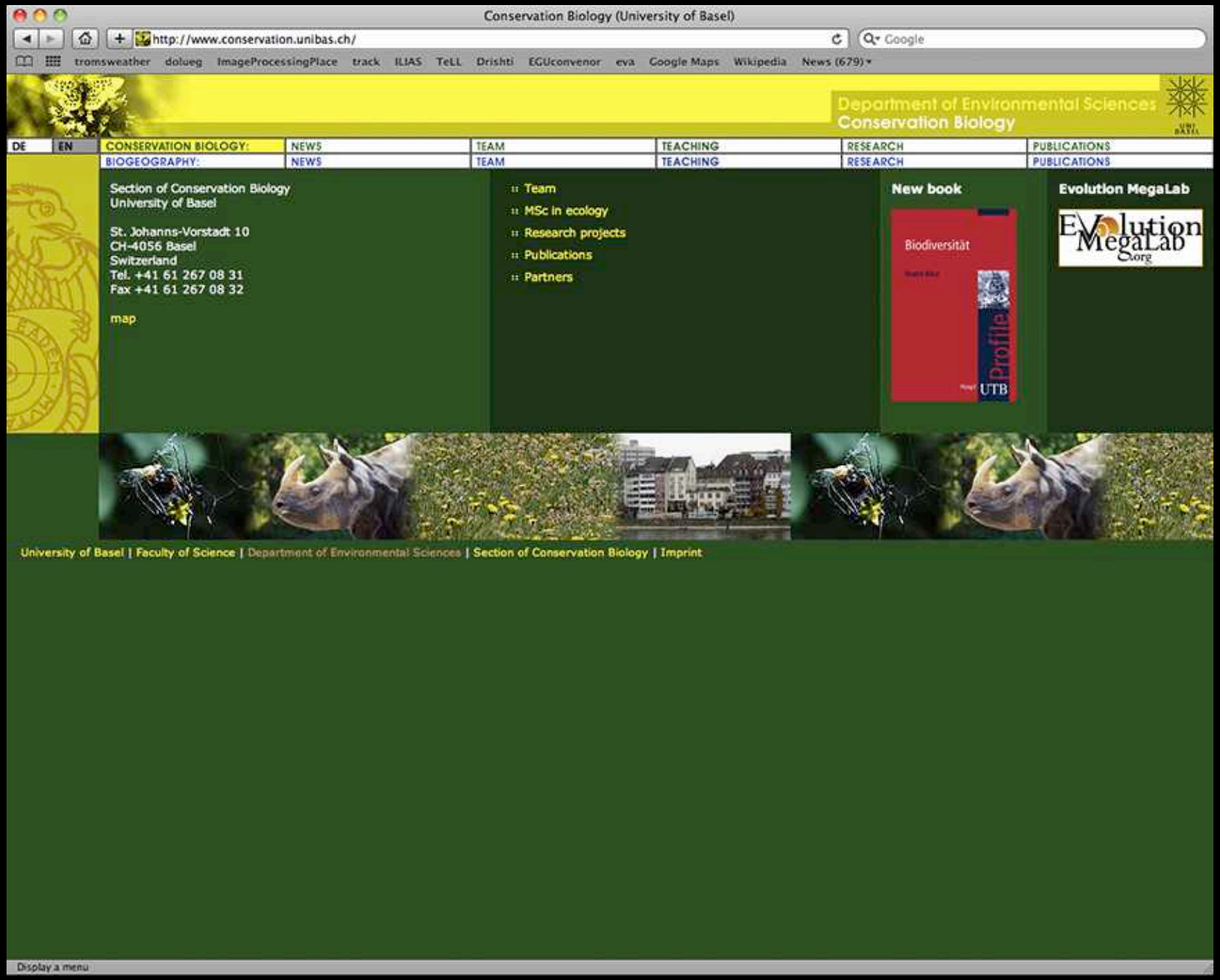

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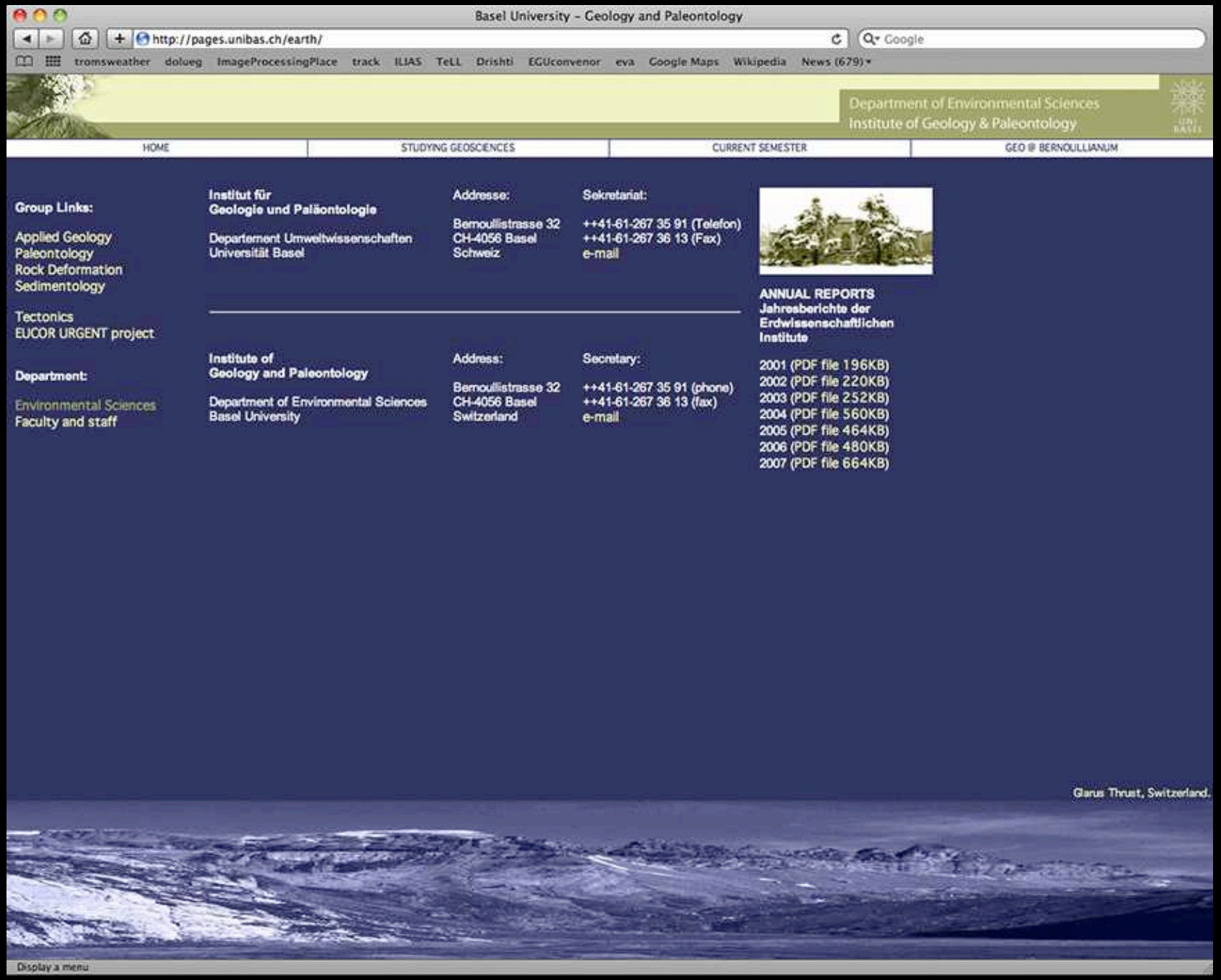

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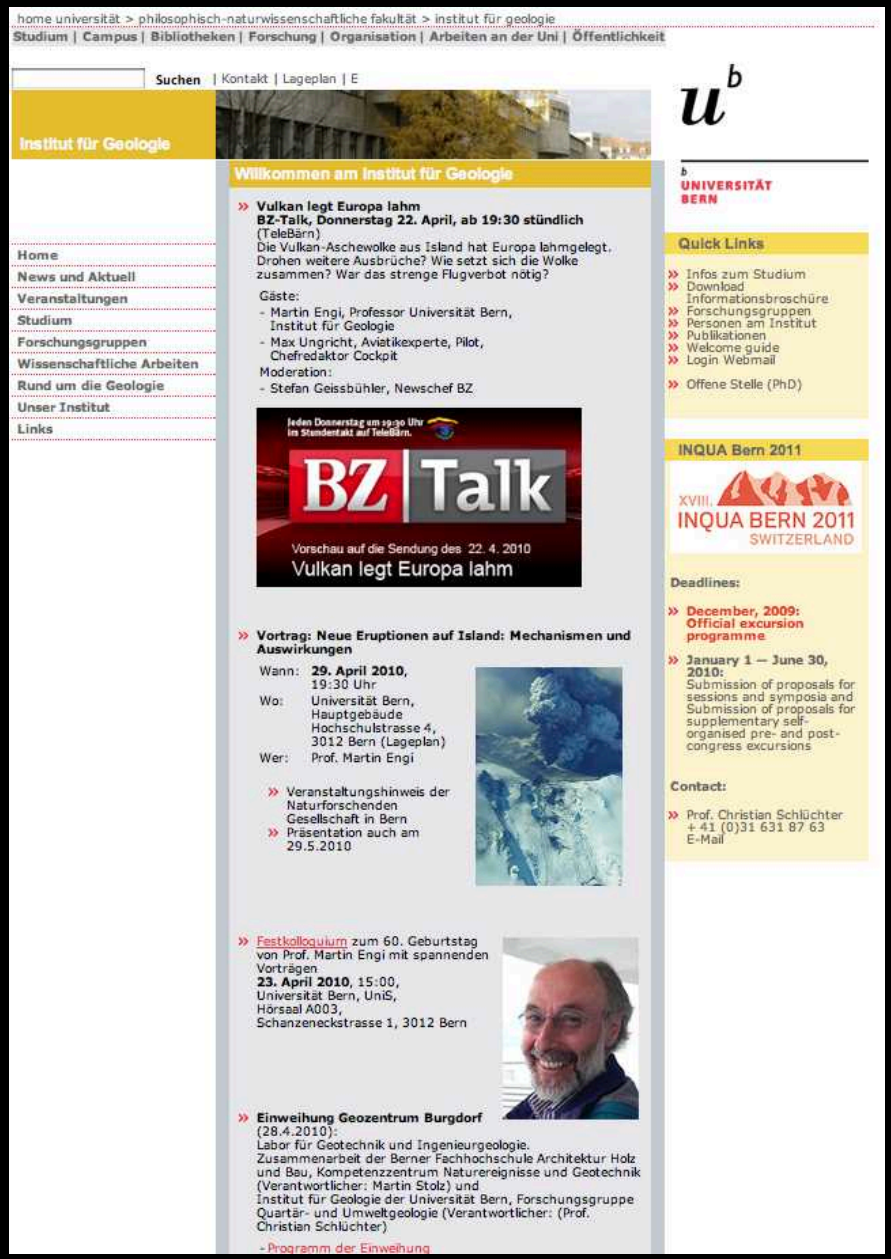

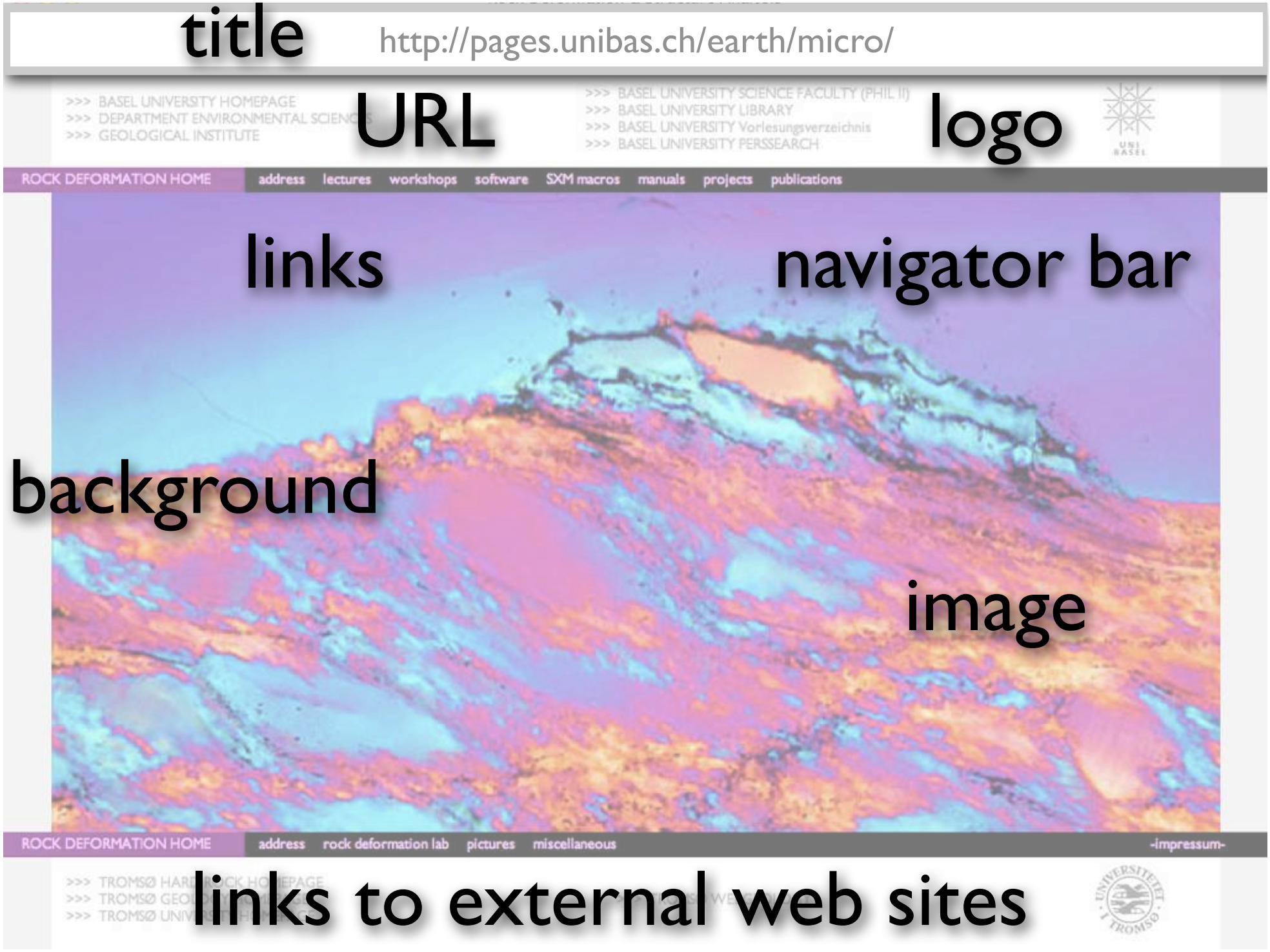
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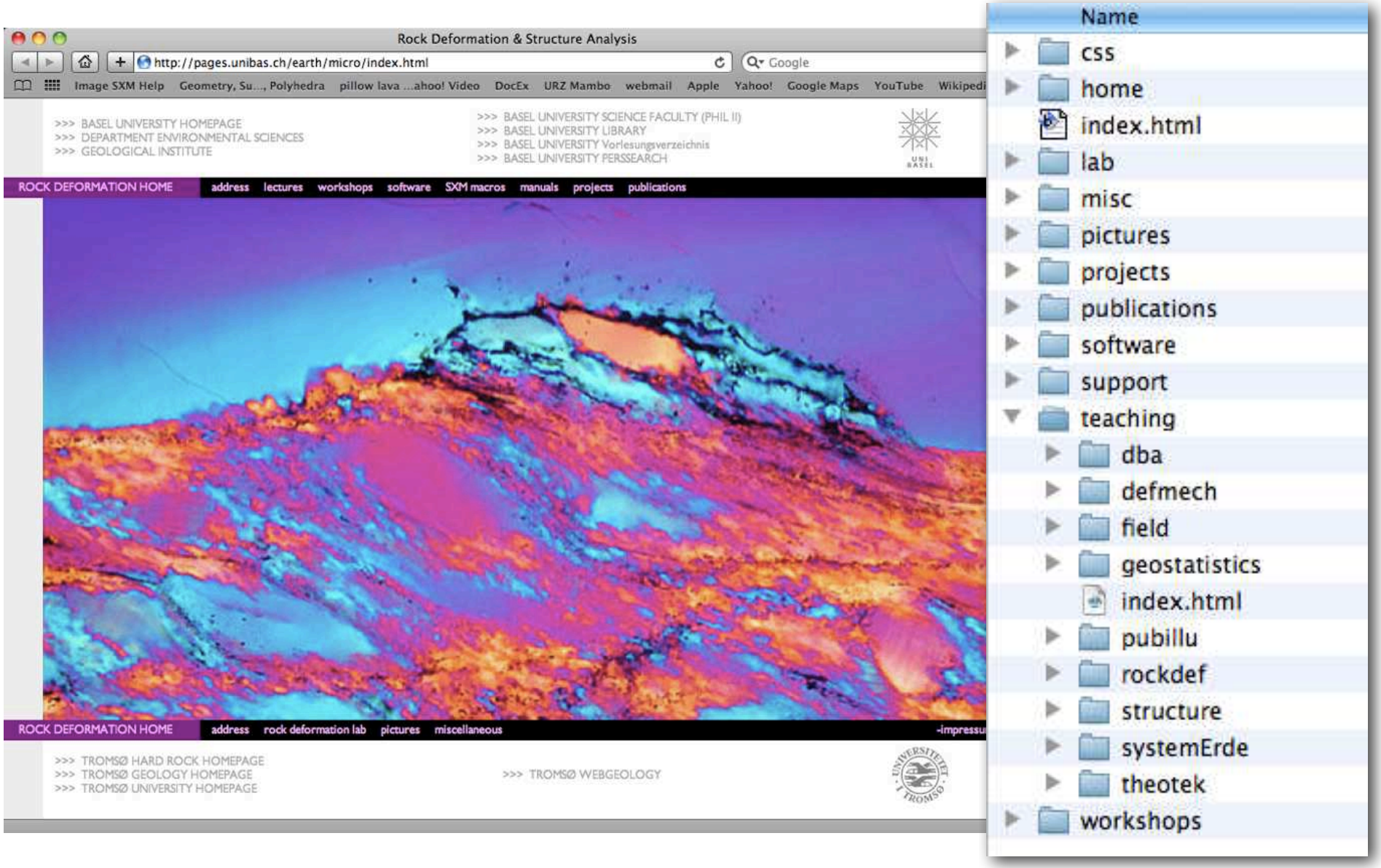
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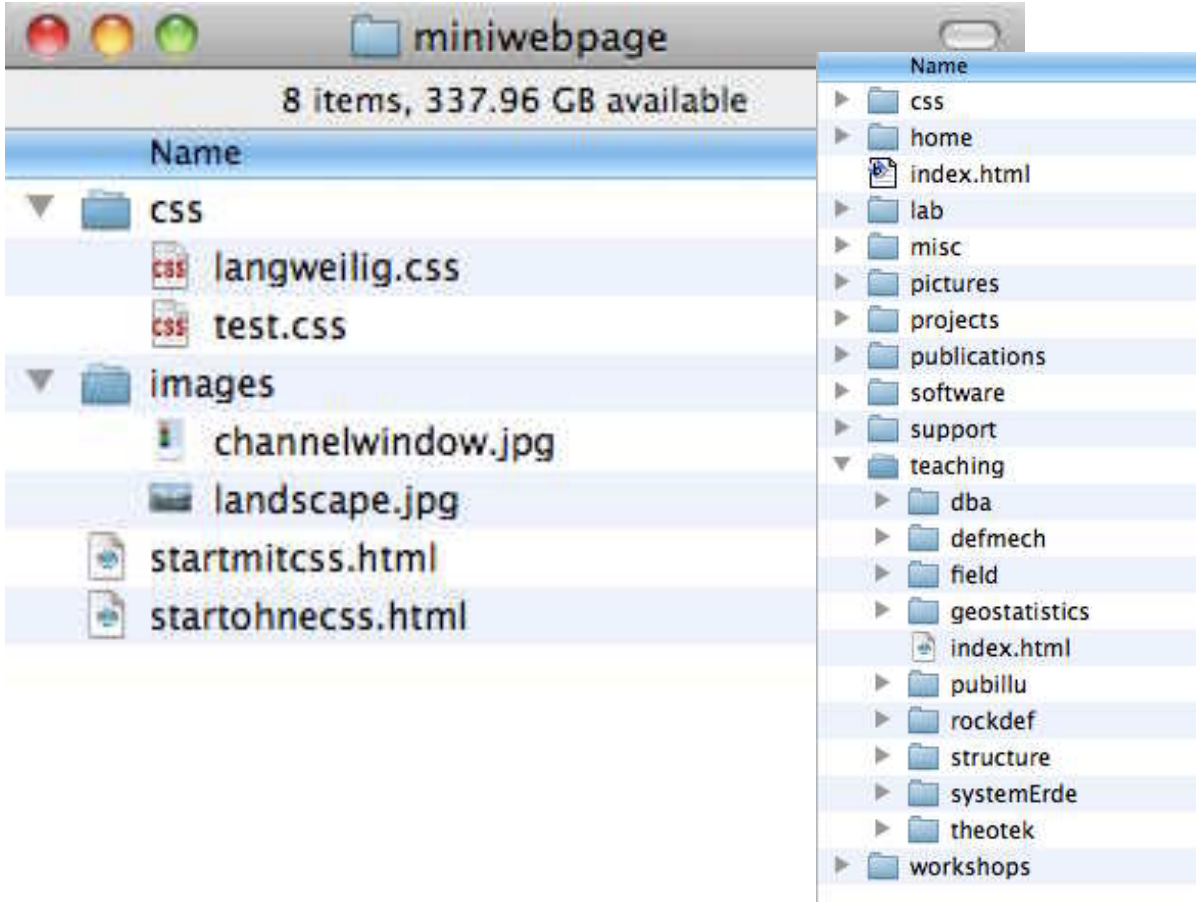
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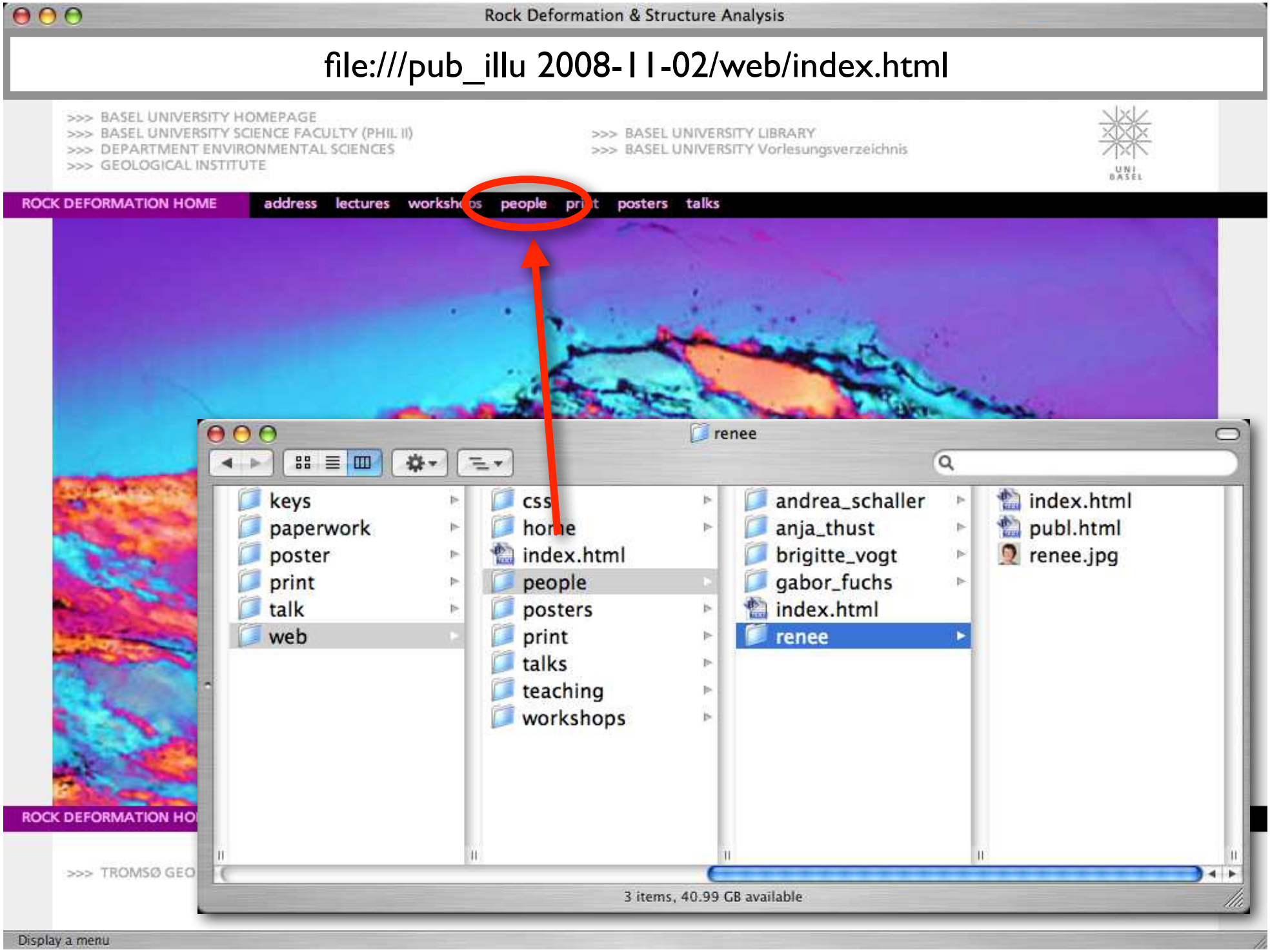
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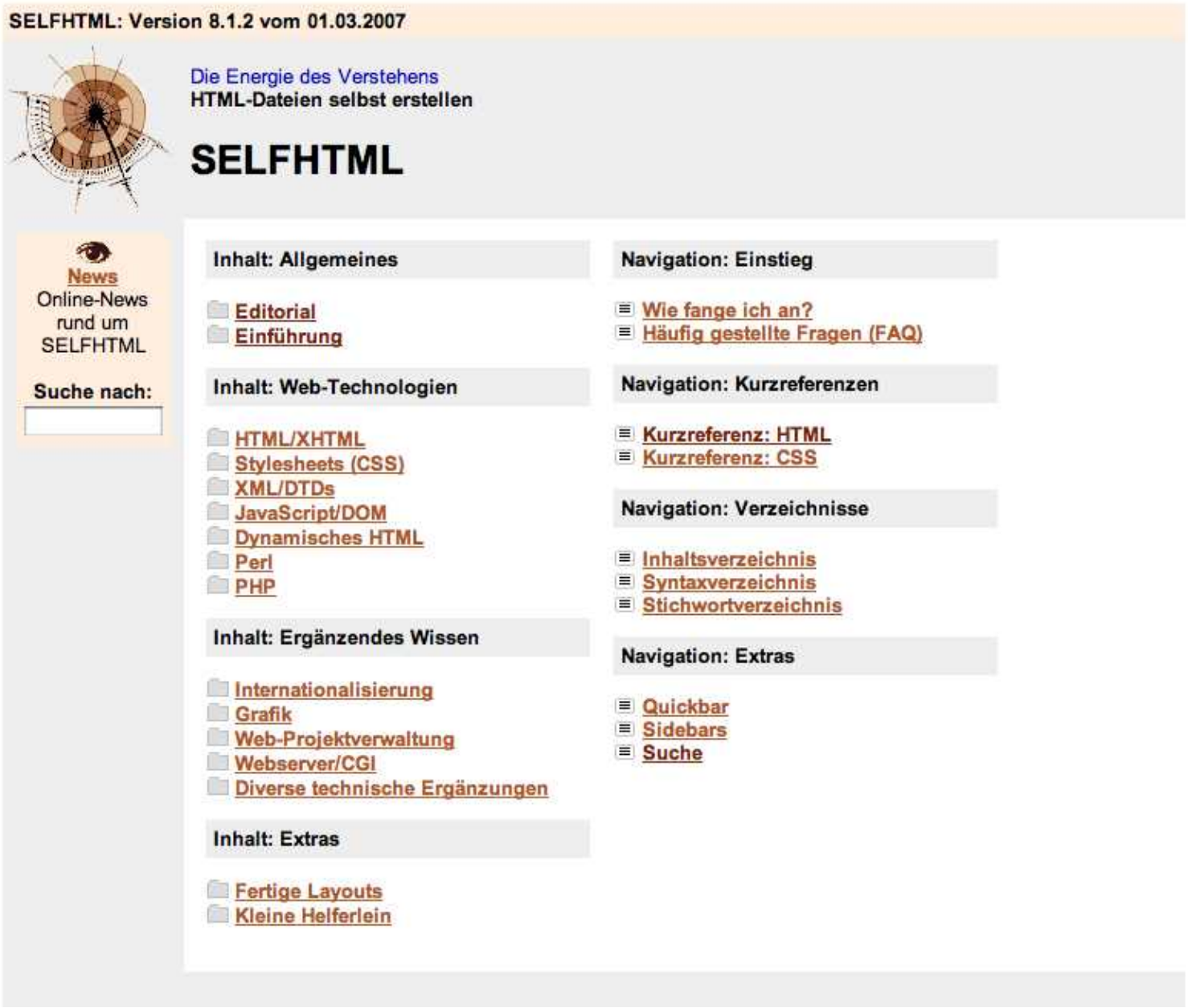
GIF	graphics interchange format by compuserve: Lossless - LZW (Abraham Lempel, Jacob Ziv, Terry Welch)
JPEG	joint photographic experts group lossy discrete cosine transform followed by Huffman coding
PNG	portable network graphics lossless "deflation"

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



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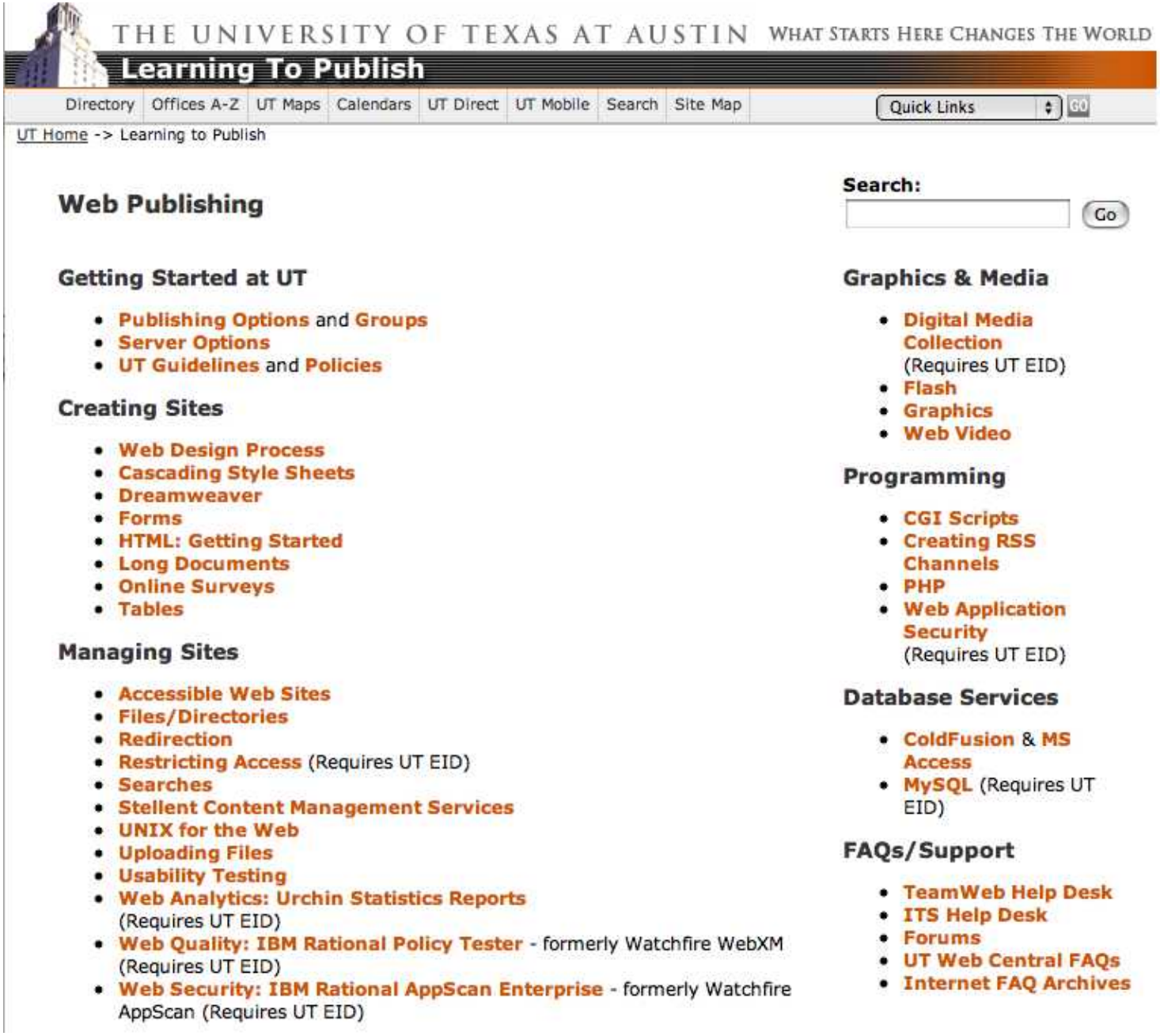

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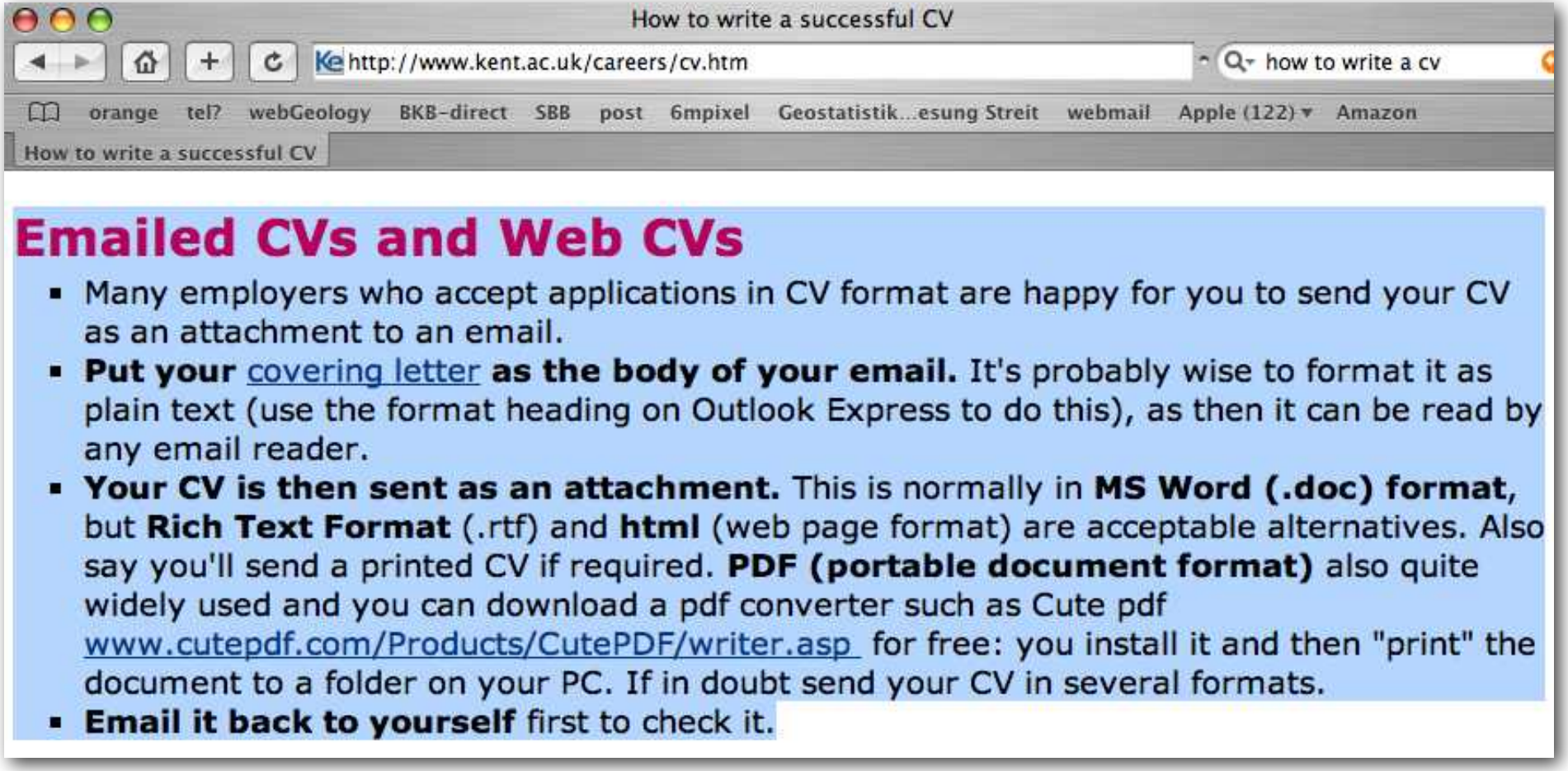

Aufgabe 4 - Vortrag

1. Inhalt definieren

2. Struktur entwerfen

3. Grafik zusammenstellen

4. Vortrag üben

AGU 2009 guidelines for talks

http://www.projectionnet.com/styleguide/PresentationStyleGuide.aspx

(full text, see AGU.pdf)

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

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

- 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

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

- 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!)

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

- 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

http://www.cs.berkeley.edu/~messer/Bad_talk.html

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

http://www.cs.berkeley.edu/~messer/Bad_talk.html

BAD TALK

- Attempt to cover far more material than is practical in the time alloted.
- 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 alloted, allocating time for questions and dicussion.
- Decide how many concepts or points you can adequately get across in the alloted 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.

http://www.cs.berkeley.edu/~messer/Bad_talk.html

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 enthusasim 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?

http://www.cs.berkeley.edu/~messer/Bad_talk.html

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.