



Goetheanum

Freie Hochschule für Geisteswissenschaft
Naturwissenschaftliche Sektion



Evolving Morphology

200 Years of Goethe's Morphological Notebooks

200 Jahre Goethes Morphologische Hefte

4 – 8 October 2017

Evolving Morphology

200 Years of Goethe's Morphological Notebooks

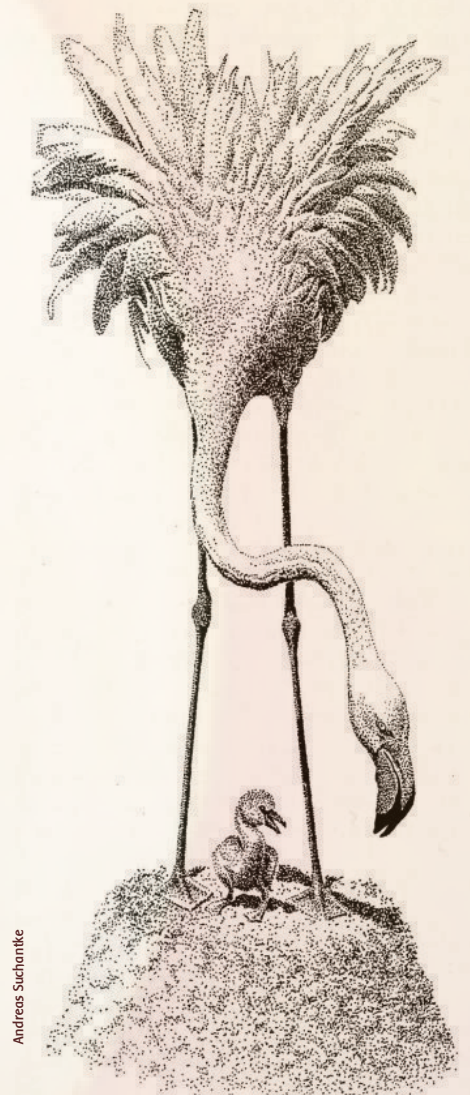
"Zur Morphologie"

In the context of evolutionary developmental biology, epigenetics and phylogenetic research, where development and generative processes of organismal form are considered, the Goethean motto; Form (μορφή) as Formation (*Bildung*) and Transformation (*Umbildung*), provides morphology with a new meaning. The seminal research program that Goethe conceived under the rubric of Morphology does not include development; rather it is the science of development itself. It has become a keyword among contemporary biologists proclaiming its renaissance in our understanding of evolution. Consequently, it is also not surprising that Goethe has been cited by many plant developmental geneticists, due to a number of findings that could possibly, by way of molecular models and experimental tests, corroborate the foreseen ideas in his essay "An Attempt to Explain the Metamorphosis of Plants" published in 1790.

Moreover, the Goethean concept of *Bildung* carries in its core an educational aspect, which invites the morphologist to engage, develop and evolve her/his cognitive capacities in an intentional kind of process one could call *Participation*. Goethe himself proposed in one of his Maxims and Reflections, a Delicate Empiricism connecting with the conceptual content of a phenomenon. Thus, morphology is a participatory science, in so far as it provides the possibility of recognizing the intrinsic correlation between mind and form, and it is simultaneously a Morphology of Human Knowledge.

Therefore, besides celebrating the 200 years of the publication of Goethe's morphological notebooks, "On Natural Science in General, Morphology in Particular", the aim of the conference is firstly to trace back Goethe's inceptions of the original dynamic way of seeing by revisiting the conceptual and empirical foundations of his morphology; secondly, to prospect for its place and role in contemporary research and education in biology; and finally, to point out its ethical implications in questions of environmental and ecological public awareness.

Johannes Kühl, João Felipe Toni, Ruth Richter & the Team of the Natural Science Section



"To observe things in their coming-into-being is the best way of explaining them."
Pierre Jean François Turpin
(1775-1840)

Schedule

Time	Wed. Oct. 4	Thu. Oct. 5	Fri. Oct. 6	Sat. Oct. 7	Sun. Oct. 8
09:00 10:30		Keynotes: Natural History of Morphology João Felipe Toni Malte Ebach	Keynotes: Form as Process Peer Schilperoord Rolf Sattler	Keynotes: Science of Morphology Mark Riegner Rolf Rutishauser	Keynotes: Science of Morphology Susanna Kümmell Craig Holdrege
10:30 11:15		Coffee Break			
11:15 12:30		Panel Discussion: Natural History of Morphology João Felipe Toni, Malte Ebach, Ruth Richter, Wolfgang Schad Hosted by Renatus Derbidge	Panel Discussion: Goethes Anschauung Peer Schilperoord, Rolf Sattler, Jan Albert Rispens, Craig Holdrege Hosted by Ruth Richter	Panel Discussion: Morphology in Modern Science Mark Riegner, Rolf Rutishauser, Louis Ronse De Craene, Malte Ebach, Johannes Wirz Hosted by Matthias Rang	World Café Summary Notes & Closure Johannes Wirz
12:30 14:00		Lunch Break			
14:00 14:45		Nature Observation as an Artistic Activity	Nature Observation as an Artistic Activity	Nature Observation as an Artistic Activity	
15:00 16:30		Research Presentations	Symposium	Symposium	
16:30 17:00		Coffee Break			
17:00 18:30		Keynotes: Morphology of Human Knowledge Michaela Glöckler Johannes Wirz	Research Presentations	Research Presentations	
18:30 20:00	Opening & Introduction Johannes Kühl Ruth Richter World Café	Dinner Break			
20:00 21:30	Opening Lecture: Wolfgang Schad	Interactive Eurythmy with participants	Interactive Eurythmy with participants	Artistic Performance: Eurythmy	

You can find further accommodations on our website: www.goetheanum.org/4283.html

Booking Form

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Evolving Morphology

Autumn Conference of the Natural Science Section
at the Goetheanum from Wednesday, 4 to Sunday, 8 October 2017

Booking closes: Wednesday, 20 September 2017

Please complete the booking form and mail, fax or email to:

Goetheanum Empfang, Postfach, CH-4143 Dornach

Fax + 41 61 706 4446, Tel. + 41 61 706 4444 email tickets@goetheanum.org

Please fill out in block capitals!

☐ Ms ☐ Mr

Name, first name

Billing address

☐ private address ☐ address of institution

if so, name of institution

Street, n°

Town

Postcode

Country

Phone/fax

Email

Some lectures will be held in English, some in German.

I need translation into ☐ English ☐ German

Conference ticket without meals*

☐ CHF 300 (regular price) ☐ CHF 210 (concessions¹)

Conference ticket with meals (3x lunch, 4x evening meal)

☐ CHF 475 (regular price) ☐ CHF 385 (concessions¹)

Breakfast (4x) ☐ CHF 60

Group accommodation ☐ CHF 40 (4 nights from 4 to 8 October 2017)

(Mattresses on the floor. Please bring a sleeping bag as well as a pillow and a sheet, limited places)

Registration for the Nature Observation: At the information desk at the beginning of the conference.

Parking at the Goetheanum ☐ Parking permit: CHF 25

Insurance

☐ Cancellation insurance (5% of the total costs, CHF 10 minimum)

See cancellation conditions in the General Information

Payment methods

☐ on invoice (only Switzerland and Euro zone)

Credit card (all countries) ☐ Visa ☐ MasterCard

Card number: ____ / ____ / ____ / ____ Expiry date: ____ / ____

☐ I would like to receive the biannual programme of Goetheanum events (in German).

I agree to the terms of payment and cancellation.

Place, date, signature

*The actual cost of the conference is CHF 480 per person (anticipating 80 participants). The regular conference fee of CHF 300 is made possible by support from the Anthroposophic Society and sponsors.

¹Concessions apply for students, schoolchildren, OAPs, the unemployed, those in training, military or civil service and people with disabilities who receive benefits. Proof of status has to be submitted with your booking form.

Terms and Conditions will be sent on request or can be accessed online at www.goetheanum.org/6025.html.

Keynote Speakers / Vortragsredner

Malte Ebach, Sydney, Australia, School of Biological, Earth & Environmental Sciences, University of New South Wales.

Michaela Glöckler, Dornach, Switzerland, Medical Section at the Goetheanum.

Susanna Kümmell, Witten, Germany, Institute for Evolutionary Biology and Morphology, University of Witten/Herdecke.

Craig Holdrege, Ghent, USA, The Nature Institute.

Rolf Sattler, Kingston, Canada, Departments of Botany and Biology, McGill University.

Mark Riegner, Prescott, USA, Environmental Studies Department, Prescott College.

Rolf Rutishauser, Zürich, Switzerland, Institute for Systematic and Evolutionary Botany, University of Zürich.

Wolfgang Schad, Witten, Germany, Institute for Evolutionary Biology and Morphology, University of Witten/Herdecke.

Peer Schilperoord, Alvaneu, Switzerland.

João Felipe Toni, Dornach, Switzerland, Research Institute at the Goetheanum and Institute of Botany, University of Basel.

Johannes Wirz, Dornach, Switzerland, Research Institute at the Goetheanum.

Research Presentations / Forschungspräsentationen:

There will be three slots for short presentations. See homepage for details.

<http://www.forschungsinstitut.ch/en/conferences-colloquia/evolving-morphology-17/contributions/>

Es wird drei Einheiten geben, in denen kurze Präsentationen von aktuellen Forschungsergebnissen dargestellt werden können. Details hierzu auf der Homepage:

<http://www.forschungsinstitut.ch/veranstaltungen/evolving-morphology-17/kurzbeitraege/>

Symposium:

This feature is an open space for people to meet, make connections, share ideas in smaller groups regarding certain topics and also for existing groups to present their research topic and open for potential participants.

Dieses Format bietet Raum für Begegnung und Austausch, sodass sich neue Interessensgruppen bilden und bereits bestehende für potentiell Interessierte öffnen können.