

# TIMS E-NEWS

The International Molinological Society

Fall/Winter 2010

Issue 9

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### INTRO BY OUR PRESIDENT

*Dear Fellow TIMS Members and Mill Friends,*

*The ninth newsletter is a special one. First of all, it is the last one coming from Lisa and Stacie in the USA. A new team in Greece, consisting of Katerina Toutouza and George Speis will take over. On behalf of the TIMS Council, I would like to thank Lisa and Stacie for having done such a great job, and welcome Katerina and George.*

*Secondly with this news letter, TIMS officially launches the new website, [www.molinology.org](http://www.molinology.org). On the frontpage in the upper right corner you will find a link to a feedback form, so if you have suggestions or comments, please let us know.*

*The new website unfortunately forced us to change the addresses of the Mill GPS Database and the TIMS Forum as follows:*

*•Mill GPS Database main page: <http://gpsdatabase.molinology.org/gps.html>*

*•The links for the Database files have been adapted and can be found under: <http://gpsdatabase.molinology.org/databasefiles.html>*

*•Be aware that also the network links to the database for Google Earth have changed. This means that you have to delete the old ones and replace them with the new ones, as listed under the above link.*

*•TIMS Forum main page: <http://forum.molinology.org/>*

*The Mill GPS Database and the TIMS Forum can also be reached via the new website.*

*All TIMS members will receive these weeks a copy of our latest publication "Ganzel & Wulff - The Quest for American Milling Secrets". This publication with about 250 pages and many detailed technical drawings, describes the milling technology in the USA around the beginning of the 19th century as seen through the eyes of two young Germans, Carl Friedrich Ganzel and Friedrich Wulff.*

*Once again I would like to encourage you to send us YOUR inputs. So, if you:*

- know about a new mill book, let us know.*
- have made a mill trip, send us your 5 best foto's.*
- have heard about a mill conference, keep us informed.*
- would like to introduce a mill museum or collection, write us.*
- have news you think could be of interest to other mill enthusiasts, let us know!!!*

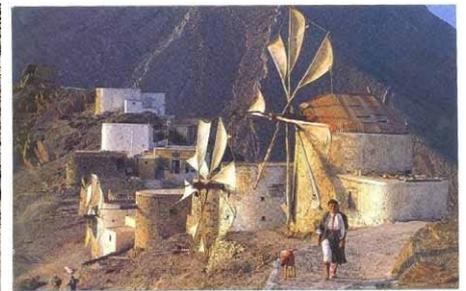
*If you are about to write a more extensive article on mills, and would like to have it published, then you can contact Tony Bonson at [tonybonson@google-email.com](mailto:tonybonson@google-email.com). Tony is our editor of International Molinology, the official Journal of The International Molinological Society.*

*If you are not a member of TIMS we encourage you to join and enjoy Mills worldwide.*

*Willem van Bergen  
e-mail: [wdvb@gmx.de](mailto:wdvb@gmx.de)*

## POSTCARDS FROM THE PAST

Some of our favorite postcards! Enjoy!



## LET'S HAVE A LOOK INSIDE THE TIMS ORGANIZATION

*We take you to Greece to meet Katerina Toutouza and George Speis, our future TIMS E-Newsletter team.*

### **George Speis**

George was born in Athens, Greece in 1950. He holds an M.S. in Electrical Engineering from Youngstown State University (1975) - Youngstown, Ohio and a Post Graduate Certificate in Social Anthropology, University of Wales (2006). His career in Industry was mainly in the Hellenic Petroleum Company as the Information Officer. Later he was a freelance Business Consultant and Technical and General Manager in Consulting and Medical Companies in Greece and Romania.

Currently, George is retired. During his free time he collects arts and crafts material, mainly tools and information throughout Greece. This resulted in establishing a Museum in Athens, as a branch of the Museum of the Greek Folk Art of Athens, specializing in Material Culture.

George did ethnographic field research mainly in the islands of Andros, Kea and Inousses which resulted in writing books on different aspects of material culture and economic history, including 3 books on environmental education. His publications include ten books and various articles in Greek, one of them suggested by the Greek Book Centre as important in Ethnography. George has participated in various meetings all over Greece with papers relating to ethnography problems and issues and has received an award from the Ethnographic Archives of the Greek Academy for the field research in Inousses.

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### ***Katerina Toutouza***

Katerina was born in Athens, Greece in 1972. She studied Architecture in the National Technical University of Athens (NTUA) 1991-1997. She received a Diploma in Architectural Conservation of Monuments at Herriot-Watt University of Edinburgh (1997-1998).

Katerina works as an architect and has also participated in several researches and projects for mills and watermills:

- Research for the water-driven installations in the Prefecture of Corinthia, Greece. This was a survey to locate and record all water-driven pre-industrial installations which used to function in the area. Routes in River Lousios Valley (from open air water-power museum in Dimitsana (Peloponnese)). Prefecture of Arcadia, Greece.



- Project in the Island of Andros, Greece. (Master-plan of the Eco-museum in Dipotamata- Andros).

Katerina has two publications in two Greek architectural journals of the Conservation of the Industrial Building of Columbia in Athens. In addition, she is a member of Item (Institute of Hellenic Mills).

Please send all future e-news items to [tims-newsletter@molinology.org](mailto:tims-newsletter@molinology.org)

### **THE NEXT TIMS SYMPOSIUM IN 2011**

#### **TIMS 13<sup>th</sup> Symposium 2011**

All Danish mill friends look forward to welcoming you to the The International Molinological Society's 13th symposium, which takes place in Aalborg, Denmark from the 3<sup>rd</sup> of September to 11<sup>th</sup> of September 2011.

The symposium venue will be located at the Aalborg Congress & Culture Centre <http://uk.akkc.dk/meetings--congresses/presentation-of-the-centre>, situated in the town centre, 5 minutes walk from the railway station (direct connection from Copenhagen Airport and Copenhagen main station every hour) and 7 km from Aalborg Airport (8 minutes by taxi).

We will be accommodated at the Quality Hotel Aalborg, which is attached to the congress centre <http://www.qualityinn.com/hotel-aalborg-denmark-DK023>.

#### **Main theme for the symposium: The correct preservation of mills.**

In many countries it is very difficult to raise money for mill restorations, and sometimes owners and mill groups have to compromise the authenticity for economic reasons.

During the last generation a lot of new materials and new working methods have been introduced in the preservation of our historical mills: new types of hardwood unknown to our ancestors, epoxy, so-called

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maintenance-free synthetic materials and so on. It is difficult to orientate oneself in this jungle – what is good, what is bad?

On this background we have chosen, that the main theme of the symposium will be, “The correct preservation of mills”. We hope to see many papers on this topic, and that many of you will share your experiences – good or bad – with the rest of us, and that we can have some fruitful debates about the principles for preservation as well as the practice of preservation.

During the symposium we will show you a variety of mills in northern Jutland. We will also have a 2 day tour to northern Seeland and southern Fyn. We want to present to you both some well restored mills – the highlights, as well as some “main stream mills”. Being very honest in this way we also hope to inspire to a debate – what is good, what could have been done better, and by which means. On the way millwright Michael Jensen has invited us for lunch and a visit to his workshop, and on Fyn we are kindly invited to meet members of The Danish millers Association at Grubbe water- and windmill.

### **Pre and post tour**

We offer pre tour to Bornholm and Skåne (in southern Sweden), with departure from Copenhagen 30<sup>th</sup> of August. Bornholm is an island situated in the middle of the Baltic Sea. It is the only rocky island in Denmark, and often referred to as the “Sunshine Island” because it is one of the locations in Denmark with the most recorded hours of sunshine annually. But this small island is also a mill paradise with 3 watermills, 3 post mills and 11 smock mills (in Denmark called “Dutch mills”). One of the post mills is the oldest windmill in Denmark, built in 1629. We continue through Skåne, where we will visit 3 interesting windmills, to Aalborg via Gøteborg/Frederikshavn.

The post tour will bring us to southern Jutland – once a duchy under the Danish king, from 1864 under german rule, and once again united with Denmark in 1920. This history, of course, has influenced the development of mills. One day we will visit the Danish Wadden Sea. We will go to Mandø – an island, which is reachable only during low tide. The island has only 62 inhabitants, but they have their own very nice small windmill with machinery for pearled barley (see picture). We will also see the small pumping mills in the meadows of Ballum, the buckwheat-mill by Aabenraa and many more interesting mills in very nice landscapes.

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### **Our logo**

Our logo has been created by the Danish artist Mogens Pedersen, Lyngby, inspired by a paper cut made by Hans Christian Andersen. H.C. Andersen is the most famous Dane ever because of his fairytales. Less known is that he also made a lot of paper cuts as small presents for the children of his benefactors. We have



chosen as our logo this little cheerful humanlike windmill in the colour of “Dannebrog”, the Danish flag, which is the oldest state flag in the world still in use by an independent nation (since 1219).

On behalf of the organizing committee,

Lise Andersen

*Chairman of the TIMS 2011 Symposium*

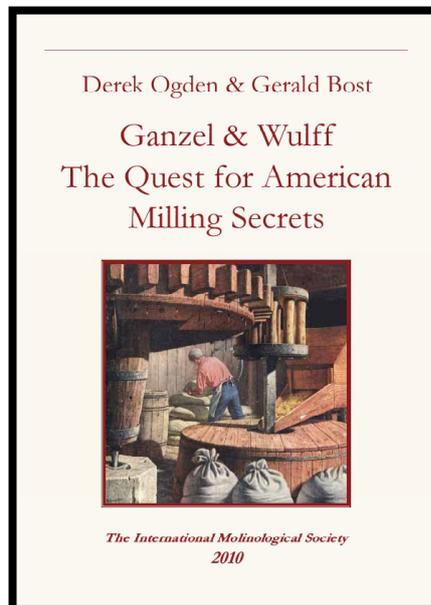
[ila-kultur@aalborg.dk](mailto:ila-kultur@aalborg.dk)

*Note: More information and registration will be on the TIMS web site soon!*

### **BIBLIOTHECA MOLINOLOGICA NO. 20**

Producing and printing the BM20 will be costly and we ask if you or your organizations are willing to donate please contact your county representative or [click here](#) for the contact list. This BM20 will be a very important volume as it describes the actual status of the mill technology in the USA in the early 19th century, as well as the start of a new development in the mill technology in Europe, based on the knowledge in the USA that was carried across the ocean by the German spies Ganzel and Wulff.

Note only current 2010 TIMS members will receive this edition as part of their membership benefit. If not a member please order from the TIMS website.



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## IM NO. 81

### TIMS Editor Tony Bonson

The main items of IM 81 are:

*Mills of Ruad*, by Michael Harverson

*Baroque Memorial Stone from The Mill at Pravčice in the Czech Republic*, by Rudolf Simek

*Millstone Ventilation - A Tribute to the Life of George Hinton Bovill*, by Colin Moore

*The Webster/Huard Archive*, by Jean-Francois Amary and Christian Porcher

*Amalfi Paper Mills*, by Tim Booth

TIMS Symposium Call for Papers and Information

Be sure to give us your change of address if you have moved.

[tonybonson@googlemail.com](mailto:tonybonson@googlemail.com)

Note that only current TIMS members receive this issue. Look on the side links on how you can be a member of TIMS or check our web site [www.molinology.org](http://www.molinology.org).

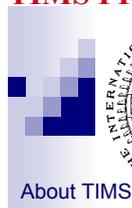
## 2011 MEMBERSHIPS

The membership dues remain the same for January-December 2011. Payments can be made to your country's representative or the TIMS treasurer. [Click here](#) to find your representative.

## E-NEWS - OLD VERSIONS

[Click here](#) to download Past e-newsletters.

## TIMS PRESENTATION



Do you want to learn more about TIMS? Do you have a organization or group of interested Molinologists? [Click here](#) for our new presentation of TIMS. Please show to as many people as possible. Thanks to our TIMS president for putting this together. Help spread the news!

## COUNCIL NEWS

Council Meeting in the Midwest



*TIMS Council meeting at the Mill City Museum in Minneapolis, Minnesota - September*

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*TIMS Council and Fans pose for a group photo in Pella, Iowa.  
T-Shirts read, GOT MILLS?  
The back of the shirts lists all the Mills that were visited in five days.*

## TIMS PLAQUE



# The TIMS' Plaque

The best way to let people know about TIMS and your membership

Limited Edition  
High quality porcelain enamel sign on thick metal plate  
Size: 10 x 13 cm, Colours: black and white

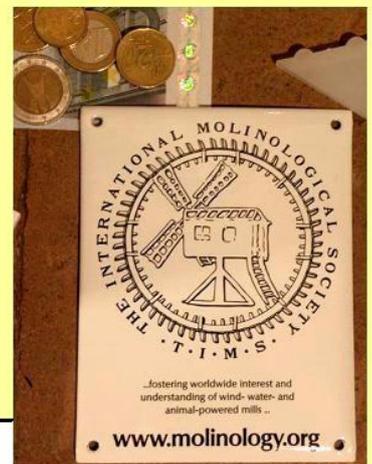
### Order now your personal copy

Two models available :  
Plaque with holes : allow you to fix it strongly on any support  
Plaque without holes : use it as a souvenir or a paperweight or stick it everywhere you want

**Price for one plaque (including P&P) :**  
**33,5€** (EU and Switzerland) or **35€** (other countries)  
**29£** (United Kingdom), **48,5\$** (USA and other countries)  
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#### ☞ How to order ?

- 1/ Please send an e-mail to Benoit Deffontaines to make sure that there are plaques still left → [benoit.deffontaines@wanadoo.fr](mailto:benoit.deffontaines@wanadoo.fr)  
Please indicate if you prefer a plaque with or without holes
- 2/ Make a bank transfer to :  
M. DEFFONTAINES BENOIT - TIMS / IBAN : FR76 1940 6370 3780 3614 5500 134 / BIC SWIFT : AGRIFRPP894  
Please make sure that there will be no extra cost to receive the money in France
- 3/ Confirm by e-mail when the money is sent and give your postal address
- 4/ The plaque will be sent to you in a small carton and padded envelope after receiving your payment.



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## **NEWS FROM AROUND THE WORLD**

**National Mill Days, Events, Meetings, Exhibitions, Country Reports  
And Notices of new Mill Related Publications**

### **INTERNATIONAL EXHIBITION, “TIDE MILLS OF WESTERN EUROPE”**

Five years after a first venue that took place in the Moulin du Prat (La Vicomté-sur-Rance, France), the touring exhibition “Tide Mills of Western Europe”, coordinated by the Ecomuseu Municipal do Seixal and supported by the European Commission through its Culture 2000 Programme, has received more than 80,000 visitors.

Aimed at helping to increase public awareness of these heritage buildings common to the European Atlantic Coast and the ways in which their potential has been developed, the exhibition is the result of the collective work of more than 20 institutions and researchers dedicated to projects related to the research, preservation, restoration and promotion of tide mills on European territory. It focuses on aspects related to their geographical distribution and location, types and modes of functioning, their many uses and their value as heritage sites.

The good reception it has received since 2005 justifies the continuity of its tour. Therefore, it can be seen until 19 November in the Instituto Hidrográfico in Lisbon (Portugal) and between January and May 2011 it will be visiting the island of São Miguel in Azores (Portugal). More information is available at the website [www.moinhosdemare-europa.org](http://www.moinhosdemare-europa.org).

Cláudia Silveira (Ecomuseu Municipal do Seixal)  
[Cláudia.silveira@cm-seixal.pt](mailto:Cláudia.silveira@cm-seixal.pt)



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## MILL STAMPS

### France



## AUSTRALIA

### Restoration Callington Mill at Oatlands, Tasmania, Australia

British millwright Neil Medcalf has worked on the restoration of Callington Mill at Oatlands, Tasmania, Australia. The windmill, of typical British design, is once again fully operational now that it is equipped with shuttered sails and fantail, as testifies this YouTube link:

<http://www.youtube.com/watch?v=rSNpyvTzMSo>

## AUSTRIA

### Retz Windmill Restored

On Saturday 1 May 2010, a bright and sunny day, the windmill in Retz, Austria, was officially opened. This was an important day that the Berg-

mann family, owners of the mill, had looked forward to very much. Not only the Bergmann family, but the whole town seemed in a festive mood that day! No wonder, because the windmill has long been the beloved symbol of this fine wine-producing community.



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Although the windmill had been looked after and cared for over the past decades, the windmill nevertheless had been a static monument located on a prominent hill above the town. Now, after intensive restoration works carried out by Dutch millwright Jos Geverink of the Groot-Roesink company, after plans and under supervision of another Dutchman,



Ir. Gerrit H. Keunen, retired manager of the National Service of Cultural Heritage, the sails can once more turn into the wind, powering the stones to grind grain.

In the morning the official part took place, starting with an open-air mass led by the parish priest. Among the invited, several prominent guests were present, including the Dutch ambassador and the Lord Lieutenant of the province of Lower Austria. After several speeches, the official opening took place. On behalf of TIMS, Leo van der Drift offered Mrs Therese Bergmann, as head of the family, an enamel TIMS plaque.



In the afternoon, many local people took the opportunity to visit the restored mill. The festivities included a special programme for children set up on the field next to the mill, while the grown-ups could sample bread and wine. TIMS congratulates the Bergmann family with this superb result and wishes them many favourable winds.

Leo van der Drift

(All photographs by Diederik Wijnmalen)

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## CANADA

The Société pour la Sauvegarde du Patrimoine de Pointe-Claire recently launched its brochure :

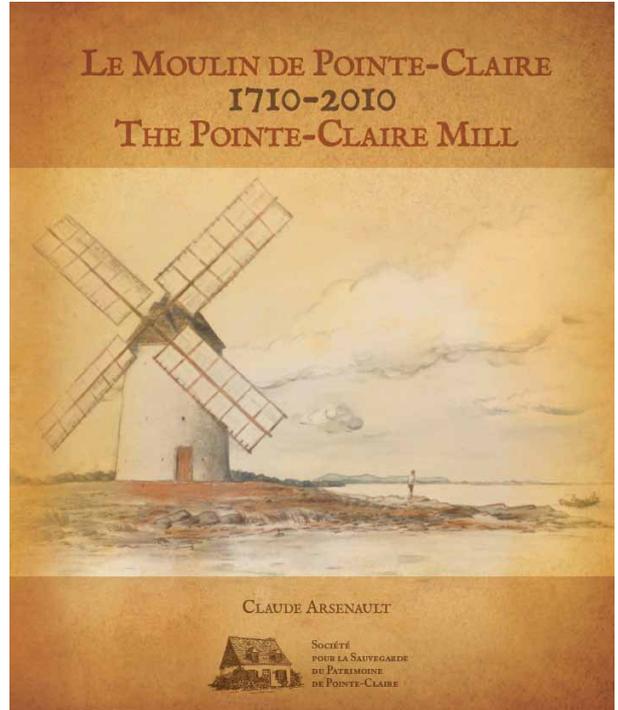
### *Le Moulin de Pointe-Claire 1710-2010 The Pointe-Claire Mill*

Sunday, September 19th 2010 at 1h00pm

At the mill, 1 Saint-Joachim Street, in Pointe-Claire.

The Pointe-Claire Mill is celebrating its tercentenary this year. This brochure commemorates its construction and pays homage to those who built it, those who made it work and those who made its preservation possible. The brochure required more than 2,000 hours of research and work.

Our Société wishes to restore the mill. This brochure, in colour and bilingual, seeks to make people aware of this beautiful piece of our heritage.



We wish to thank our generous sponsors who, thanks to their support, have contributed in the making of this brochure :

- The Caisse Populaire des Sources-Lac-Saint-Louis
- The ministry of Culture, Communications et de la Condition féminine
- City of Montréal
- Service Canada

Be the first to purchase this brochure, which will be up for sale at a cost of 10\$. For more information, contact Claude Arsenault.

Tel. 514 693 9114

[info@patrimoinepointeclaire.org](mailto:info@patrimoinepointeclaire.org)

[www.patrimoinepointeclaire.org](http://www.patrimoinepointeclaire.org)

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## FRANCE

S.O.M. Save Our Mills

Please sign the petition and help Save the Mills

Dear friends,

Environmentalists have sometimes strange ideas. It appears that the mills are responsible for the disappearance of fish and other ecological problems! In France, water mills (all water mills) are in grave danger. This multi-millennial cultural heritage will disappear. Here is a link to a petition launched by the FFAM. Thank you sign and forward this message. It is not a joke.

Thank you for your help.

Benoît Deffontaines

TIMS Council Member

[www.mesopinions.com/Le-passe-et-le-futur-de-nos-rivieres-vivantes-petition-petitions-e3c8327bfca6849905be6dd9e9052ead.html](http://www.mesopinions.com/Le-passe-et-le-futur-de-nos-rivieres-vivantes-petition-petitions-e3c8327bfca6849905be6dd9e9052ead.html)

*Note: In Denmark the situation is the same. According to an EU watercourse directive all watercourse barriers must be eliminated before 2015, and all countries must have a clear politic on this topic before 2012.*

*In Denmark the authorities put an “=” between water barrier and watermill. “All watercourse barriers must be eliminated” therefore becomes equal to “all water mills must be eliminated”. They tell us, that the watermill can remain, but without dam. But a watermill without water is not a watermill. It is very frustrating!*

*Regards*

*Lise*

*Please respond to the petition. S.O.M.*

## GERMANY

For sale: Donixmühle Oberseifersdorf (Germany)

Erik Tijman

The owner of the Donixmühle wants to sell his windmill complex ‘Mühlenhof’ as described in International Molinology #80, pages 35-38. This man who had great plans with the mill to bring it back in its appearance of the 1950s no longer has the possibility to realize his plans. He asked me if I know of someone who is interested in the site and will buy it. Among TIMS members there is the greatest chance that there will be someone. The price should be about €150.000, or may be much less, (he spoke already about €90.000) but there will be needed a lot more money to restore it all.

If anyone is interested, please contact the owner:

Mr. Roland Mauermann

Dr. Wilhelm Kulzstrasse 2

02785 Olbersdorf

Germany

Telephone +49 0174 91034 35

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Dear all,

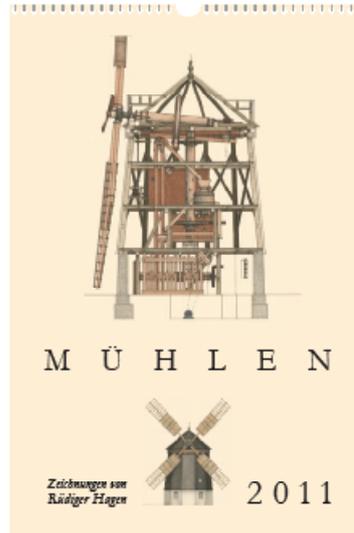
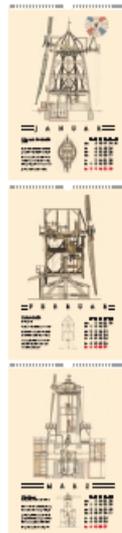
The millgroup in Berlin/Brandenburg-Germany is going to print a calendar for 2011. On the 12 monthly pages it shows drawings from Rüdiger Hagen with very interesting mills. Orders should be placed directly to the editor:

terra press GmbH, Albrechtstraße 18, D-10117 Berlin.

The price is 19,80 Euro plus postage. The format of the calendar is 33 x 46 cm. I nice decorative item - a must for all millfriends.

Further details see attachment.

Best regards  
Gerald



Edition Terra  
präsentiert

## MÜHLEN 2011

- Historische Mühle Sinesouch
- Bodmühle in Algemissen
- Behrensche Kradenmühle Söhle
- Windmühl Bad Nauheim
- Steprather Mühle Walbeck
- Bodmühle Schwabedorf
- Peltromühle Neu Langerwisch
- Wassermühle Danms
- Wassermühle Etringhausen
- Schillmühle Minden
- Motzermühle Meburg
- Windmühle Straupitz
- (Zeichnungen von Rüdiger Hagen)

Mühlen - ob Wind- oder Wassermühlen - faszinieren viele Laien auch deshalb, weil ihre Technik so einfach und klar erkennbar ist. Rüdiger Hagen hat mit seinen Aufschnitt-Zeichnungen, die u.a. in der „Kleinen Mühlenkunde“ von Torsten Rüdinger und Philipp Oppermann veröffentlicht sind, dazu einen wichtigen Beitrag geleistet. Der Kalender „Mühlen 2011“ stellt 13 der schönsten Zeichnungen von Rüdiger Hagen Monat für Monat im Format 33 x 46 cm vor.

„MÜHLEN 2011“ - Monatskalender, Erscheinungstermin: 15. August 2010  
Verkaufspreis: 19,80 Euro · [www.terra-press.de](http://www.terra-press.de)

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Ich bestelle \_\_\_\_\_ Exemplare des Kalenders „Mühlen 2011“

Ich bin Wiederverkäufer und möchte die Kalender zum Buchhändlerarabatt beziehen.

Datum: \_\_\_\_\_

Unterschrift: \_\_\_\_\_

Liefer- und Rechnungsadresse:

terra press GmbH  
Albrechtstraße 18  
10117 Berlin

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

## GREECE

### THE POCKET WATERMILL OF KEA, GREECE

In the island of Kea, the nearest to Athens Cycladic island, a portable “pocket” watermill was found. It was developed by a technician and a mechanic working in the local factory. The factory was producing enamel products up to 1957. At that time there was no electricity in the island, so this water mill was developed to produce electrical power to light two houses! The water wheel is made out of enameled “spoons” in the factory. The wheel behind was turning a small power generator (missing) using a fan belt.



*The pocket water mill*



*The water wheel*



*The entry point for the water  
turning the water wheel*

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## THE HORIZONTAL WINDMILL OF KEA

In the island of Kea, there is a unique windmill developed by an empirical mechanic. He was a person of many trades and, as they say, of great ingenuity. He is known by his nickname Baroumas. Among the many other things he invented the horizontal windmill around 1945-49. He was experimenting all the time, trying to solve the problems he was facing. So he built two towers, the second



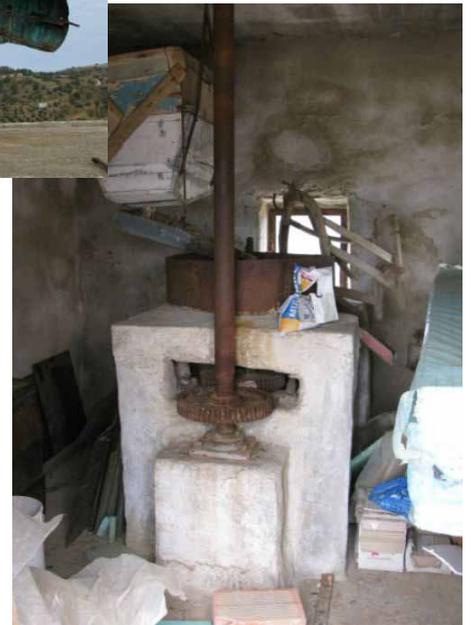
*The old windmill tower*



*The wheel*

one with a smaller wheel. One of his aims was to produce electricity using a wind driven generator. This functionality saved the mill. After his death

the windmill was sold as a holiday house. The new owner did not want the milling mechanism and sold it to a new owner, who transported it to the present location to produce electricity for his house. Today the windmill is just a storage room.



*The mill inside*



*The spring regulating the amount of seeds falling*

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## NETHERLANDS

### EVOLUTION IN WINDMILL POPULATIONS

*L.W.D. van Raamsdonk, Zetten, the Netherlands*

[Leovr21@gmail.com](mailto:Leovr21@gmail.com)

Evolution is the main process for understanding life, and it is the backbone for explaining all diverted processes and exploring diversity patterns in biology. The sense of the existence of evolution could have a broader scope than for living creatures alone. The process of evolution has also been applied to all kinds of cultural developments, such as languages or regional traditions. The analysis of diversity in windmill types in Europe in the framework of cultural evolution might help to solve several remaining uncertainties.

A possible achievement could be the analysis of parallel development. Can a mutual ancestor be postulated for the northern and southern European windmill types or should an independent, parallel development be assumed? Is the combination of the

English indications “smock mill” and “tower mill” in one German term “Holländer” correct? What is the developmental relationship between the different (sub)types of paltrok mills Europe?

This paper gives a start to illustrate the benefits of applying evolutionary principles to the history of windmills. It will be shown that primitive and modified (modern) features can be defined, that regionally circumscribed groups of windmills do exist, and, finally, that evolutionary trees can be designed as a reconstruction of historical developments.

The idea behind cultural evolution is that the designer or producer (here the millwright) is the carrier of the information (parallel in biology:

chromosomes). The information is passed on to the next generation by communication and learning-by-copying (guilds). Millwrights are hesitating or even reluctant to include new characteristics in the tradition they are guarding. Only when a new feature shows a better fitness than older ones this feature will be adopted.

The study of cultural evolution has quite a long history. A remarkable advancement was achieved in 1976, when the book *The selfish gene* by Richard Dawkins was published.

Its value was twofold: the book was

written by an evolutionary biologist, and in the book the term *meme* was proposed for the unit of cultural evolution, comparable to genes in



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living nature. According to Dawkins, a *meme* should comply to three prerequisites: there should be variation within a meme, some process of replication should be acting, and different memes should have different levels of fitness. If this set of requirements is present, evolution will automatically happen.



If the requirement of variation within a meme is necessary for evolution, a concept parallel to that of alleles in biology should be proposed for memes. These states could be indicated by the terms *plesiomemes* and *apomemes*, parallel to the recognition of primitive (plesiomorph) and advanced (apomorph) characters states in the analysis of evolution.

It is important to differentiate between local requirements and development of regional preferences. For example, the use of thatch or the application of a stage is just dependent on the local availability of materials or on the local need to raise a mill on top of surrounding buildings, and can be found all over Europe. On the other hand, spring sails or automatic shutters were adopted in Denmark, northern Germany and primarily in the Netherlands, but were abandoned in the major part of the latter country. So, not all differences are the result of developmental change. These circumstances are also found in biological evolution, and indicated as adaptation vs. speciation.

A first attempt to define plesiomemes and apomemes for evolutionary change resulted in a list of eleven characters (approximate year or period of appearance in brackets):

From a fixed to a gearing body (post mill; 1180)

Development of a turning cap on a fixed body (tower mill; 1295)

From a gable cap to a dome (conical cap; 14th C)

Decreasing size of the mill body and enlargement of the standard (wip mill; 1430)

Tilted instead of horizontal windshaft (14th C ?)

Development of a conical body (tower and smock mills; 16th C)

Varying angle of weather of the lattice (16th C)

Development of a tail for outside gearing (1573)

Attaching wind boards at front side of wing (common sails; 17th C)

From a conical cap to a boat-shaped cap (early 17th C ?)

Replacement of lattice by jib sails in Aegean Sea area (jib sails; 19th C)

The application of software for building evolutionary trees resulted in a first evolutionary tree of major wind mill types.



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Several comments can be made with respect to this tree. Several memes occur more than once in the tree (white bars). A further problem is the reversed chronologic order of a meme in the branch with post and wip mills. This is due to the situation that the variable weather of the lattice was introduced to already existing mills. Modernization of existing mills has the result that the involved meme shifts back in the topology of the tree (and virtually in the chronology too). In the particular case of windmill evolution, the chronology is known and this can be used to verify the tree. In this way the validity of the tree can be tested.

The assumption that wind mills occur in regional groups of individuals (populations) and are identical or resemble each other to a high extent, can be illustrated with the polder mills in the Netherlands. Polder mills are those mills used to pump water out of a polder by means of wind energy. These mills are currently present in the provinces of Groningen, Friesland, North-Holland, South-Holland, and the western parts of Gelderland and of Utrecht. There are several characteristics pertaining to polder mills, showing a specific distribution in the provinces mentioned: South Holland and western part of Utrecht: it is assumed that the first

use of drainage mills started in South Holland with the development of wip mills in the 15<sup>th</sup> C. Later smock and brick mills were developed. Polder organisation were able to raise relatively large mills. Although the later invention of tail winding was generally adopted, the Archimedes screw was hardly applied.

North Holland: the current two provinces were both part of one county "Holland" in the time of the major mill development. Nevertheless, especially north of the North Sea Channel all large polder mills maintained the original internal cap winding system.

It is curious to see that all corn and industry mills in the same area were and still are equipped with a tail for external cap winding. The Archimedes screw was generally adopted.

Friesland and Groningen: in Friesland the drainage of meadows remained the responsibility of individual farmers. Therefore, the polder mills are generally smaller than in Holland. Further developments such as the tail, the Archimedes screw and patent shutters are wide spread in Friesland and Groningen.

Some of these differences have a clear function. The Archimedes screw (forms of it were patented in the Netherlands in 1598 and in 1634) had an advantage when applied early 17<sup>th</sup> C in North Holland. The drainage of the large lakes in North Holland required lifting up the water three or four meters. An Archimedes screw allows to span the entire necessary elevation on its own. The mills needed could operate parallel and independent to each other. Mills equipped with the much older scoop wheels had to cooperate in rows of three or four mills to span the same elevation. A particular mill was dependent on the others in these serial organisations, but this was sufficient for draining the areas in South Holland in



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the 15<sup>th</sup> and 16<sup>th</sup> C. An overview of the regional differences is given in Table 1. The maps on the website [www.windmillevolution.nl](http://www.windmillevolution.nl) are based on a randomly selected set of 470 wind mills of the in total approx. 1100 wind mills in the Netherlands with full external mechanism. The presented regionally distributed diversity is clearly visible on the maps, and it illustrates the existence of regional groups of windmills, sharing the same combination of characteristics.

The combination of primitive and advanced characters as listed in Table 1 is different in the three regions. Because of these character combinations, evolutionary tree development is difficult in this particular situation, and evolutionary networks are more appropriate to describe the relationships.

Although the application of the principles of evolution on developments of cultural traditions has already quite a history, the application on windmill development is far from established. The presented tree is based on major aspects of *form*; characteristics derived from *function*, such as the replacement of a scoop wheel by an Archimedes screw, still have to be considered. This might be the least of the scientific pitfalls to solve. Nevertheless, the application of the principle of cultural evolution allows to find the processes behind the steadiness of or development in regional cultural traditions. The most logical lines of development might be established, which could allow to postulate answers to remaining questions in the history of windmills. In any case, this small essay shows at least the potential of a new angle of view on those highly interesting windmills.



The author wants to thank prof.dr. R.A. Holt, University of Tromsø, Norway for the valuable discussions.

*All images from the author.*

Region characteristic	South Holland / Utrecht	North Holland	Friesland / Groningen
mill types	smock mill, brick polder mill, wip mill	smock mill, few wip mills	smock mill, wip mill
diversity in wip mill types	wip mill, almost exclusively in eastern part and around Leyden	very small wip mill with vane: "Aanbren-gertje"	small wip mill: "spinnekop", in Friesland only
general mill size	large, span mostly larger than 21 m	large, span mostly larger than 21 m	small, span mostly smaller than 21 m
tail	yes on all mills	no on polder mills, yes on corn and industry mills	yes on all mills
water lifting device	predominantly scoop wheel	predominantly Archimedes screw	almost exclusively Archimedes screw
patent shutters	no	no	in many occasions

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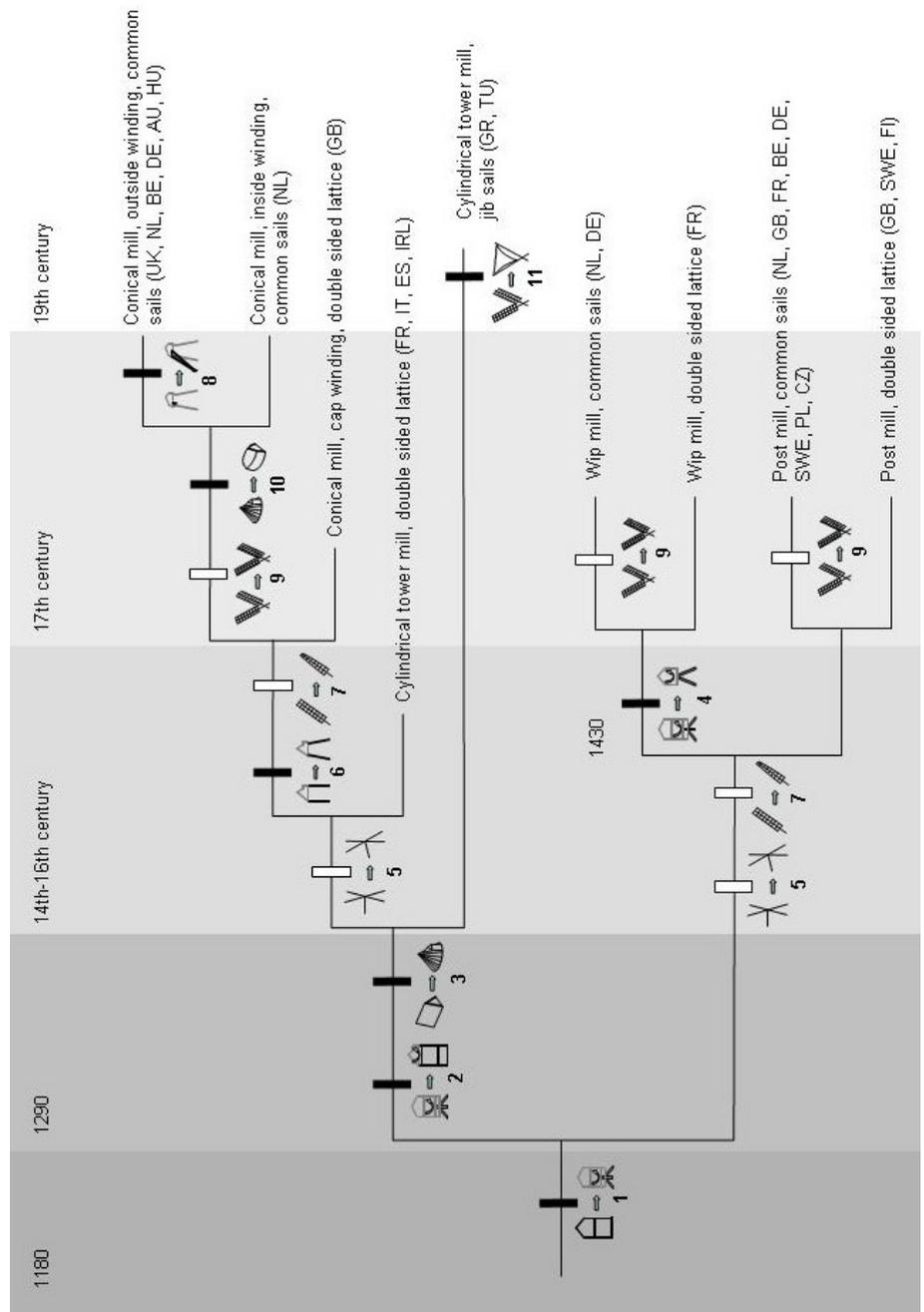
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## **NORWAY**

### **SEEN THROUGH A MILLSTONE: GEOLOGY AND ARCHAEOLOGY OF QUARRIES AND MILLS**

Bryggen Museum, Bergen, 19-21 October 2011

This is to give you advance notice of a colloquium on mills and millstones to be held at the Bryggen Museum, Bergen, Norway October 19-21, 2011. It follows the successful colloquia held at La Ferté sous Jouarre (2002), Grenoble (2005) and Rome (2009). Full details and a call for papers will be circulated in October 2010. October 19 and 21 will be days of papers and poster. A field trip to the millstone quarry landscape of Hyllestad will be arranged October 20. The colloquium will follow the pattern established at La Ferté, Grenoble and Rome, with the following broad themes:

1. Ancient, medieval and recent millstone quarries.
2. Quality, production and trade in querns and millstones. Economic quantification. To include archaeometrical studies.
3. Millstones in action: agriculture, ore processing, glass making. To include ethnographic studies.
4. Protection and evaluation of millstone quarries.
5. Poster sessions.

These themes are intended to be indicative, but there will be no restrictions on other topics being included and there will be no chronological constraints. Individual lectures should be 20 minutes; in addition there will be keynote lectures of 30 minutes. Participants are encouraged to give their presentation in English. If the quantity of contributions exceeds the time available, a selection may be made. The remaining papers can be presented as posters.

Deadline for registration and submission of abstracts is April 30, 2011 More information about hotels, the trip to Hyllestad and other practical issues, will also be sent you later. This e-mail is sent to the list of addresses which was used for the colloquia in Grenoble and Rome, and to scientists linked to the Millstone-project in Norway. Please pass this notice to anyone else you think might be interested.

Abstracts/presentation programme:

Tom Heldal, Geological Survey of Norway

[Tom.heldal@ngu.no](mailto:Tom.heldal@ngu.no) Phone: +47 99091739

Practical issues:

Astrid Waage, Norwegian Millstone Centre

[Astrid.waage@kvernstein.no](mailto:Astrid.waage@kvernstein.no) Phone: +47 45871940

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## UNITED KINGDOM

Dear Friend and Supporter of Brixton Windmill

Today, the HLF have announced just under 400,000 funding for the restoration of Brixton Windmill. This is great news for all supporters of the windmill who have been campaigning for so many years for the restoration of the mill. With match funding from Lambeth Council and FOWG, more than 580,000 will be spent on the mill over the next five years to cover restoration work and the funding of a part time education officer.

In their press release HLF say:

The windmill is an unusual Grade II\* listed building and one of only two such structures surviving in the old County of London. Built in 1816, it was owned by successive generations of one family, Ashby & Sons, Millers of Brixton Hill, until it ceased production in 1934. Currently, the interior is not accessible to the public but this will be put right by the restoration. A programme of educational activities will be organised and an audio-visual presentation on the ground floor will show the mechanical parts of the mill in operation. There will be a substantial increase in community activities and public access with 50 new volunteers recruited from the surrounding area.

We in FOWG are extremely excited that all our hard work has finally paid off. Since we were established in 2003, our aims have been to restore the Windmill to full working order and to have an education centre and improved park that will be in context with the mill. Some of our members have been working on the project for more than a decade.

We are filled with joy to know that all of our hard work has been rewarded by the HLF grant and that generations to come will benefit from the restoration of this unique landmark.

Thank you to all our friends and the community here in Brixton. Without you this project would not have been made possible. We also thank Lambeth Council and all its officers for the support and help they have given us in taking this meaningful project to the next stage. Brixton Windmill now has a glorious future for generations to come.

You are invited to the next FOWG general meeting on Tuesday, March 30 at 7pm at St. Saviours Community Centre, Blenheim Gardens.

At the meeting there will be a full update on the programme of restoration of the mill and we will be organising the summer programme in Windmill Gardens, that includes Football Five-A-Side tournament in June and the Windmill Festival in July.

We hope you will come along on Tuesday, March 30th and celebrate the good news that is the start of a new phase in the long life of Brixton's windmill.

Jean Kerrigan  
Acting Chair FOWG, 15/03/10

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## UNITED STATES

### TIDE MILL INSTITUTE

“Heritage and Sustainability” - The 6th Annual Tide Mill Conference – was held on November 12 & 13, 2010

The TIDE MILL INSTITUTE examined the rich heritage of the world’s tide mills and explore contemporary installations utilizing this ancient technology. Environmentalists committed to sustainable energy as well as scholars and tide mill enthusiasts were invited to this important annual event. Here is a scheduel of their events.

FRIDAY 12 Nov, 7-9 PM INFORMAL RECEPTION - Dorchester Historical Society 195 Boston St., Dorchester

SATURDAY 13 Nov –PRESENTATIONS at The Old Schwamb Mill – 17 Mill Lane – Arlington 8:30 AM

8:30 -9:00 – REGISTRATION

9:00 **WELCOME!** – Earl Taylor, Tide mill Institute, & President of Dorchester Historical Society

9:10 **Today’s Venue: Historical Water Power in Arlington** - Richard Duffy, author &, historian of molinology

9:40 **21<sup>st</sup> Century Helical Turbines at Eastport, Maine** - Greg Marquis, *Ocean Renewable Power*, Portland, ME

10:40 Break

11:00 **Chesapeake Bay Tide Mills** - Susan Langley, underwater archaeologist, Mid-Atlantic SPOOM Newsletter editor

11:45 Lunch

12:30 **Basque Tide Mills: Explorations in 2010** - Richard Duffy –

1:15 CAPE COD TIDE MILLS - Jim Owens, Miller at the Eastham-Windmill

1:45 SOUTH THOMASON MAINE’S WESKEAG MILL - Chuck Hartman. South Thomaston Historical Society

2:15 OPEN FORUM

2:45-3:45 “Behind the Scenes! ” – A Live **Demonstration of product being crafted on Schwamb Mill’s Victorian-era wood-working machinery**

#### **The mission of the TIDE MILL INSTITUTE:**

*advance* appreciation of tide mill technology;

*encourage* research into historic tide mill sites;

*serve* as a repository for tide mill data;

*promote* appropriate re-uses of old tide-mill sites;

*support* the use of tides as a contemporary energy source.

For more information contact-**Earl Taylor** ([ermwt@aol.com](mailto:ermwt@aol.com)) 781-272-6700  
**Bud Warren** ([bwarren@gwi.net](mailto:bwarren@gwi.net)) 207-373-1209

The Tide Mill Institute - [www.tidemillinstitute.org](http://www.tidemillinstitute.org)

#### **CALL FOR HELP!**

In the book “The Mill” by William Fox, Bill Brooks and Janice Tyrwhitt is a topic about the brake of windmills in North America. In the text there is mentioning of a brake, which works with a rope around the brake-wheel (page 38).

The text says:

*When the miller wants to stop grinding, he pulls down the lever at*

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*bottom left, which tightens a rope that runs in a groove round the brake wheel, bringing it to stop and, with it, the sails.*

I am wondering if there are still windmills who work with this construction? Maybe there is anybody who has pictures of it? Maybe the members in North America know more about this interesting topic.

I hope that someone will be able to tell me a little more about it. Reactions are welcome at [ruurdjakob@tiscali.nl](mailto:ruurdjakob@tiscali.nl).

Kind Regards,  
Ruurd-Jakob Nauta  
The Netherlands

### **FLOWERDEW**

The Flowerdew is in its new home on the grounds of the American Wind Power Center. We will be grinding corn and selling the cornmeal in the gift shop. We are so delighted to have this beautiful machine. Check out our story at [www.windmill.com](http://www.windmill.com)

Thanks!

Tanya Meadows  
Director of Marketing  
American Wind Power Center  
1701 Canyon Lake Drive  
Lubbock, Texas 79403-4908  
806-747-8734 Phone  
806-740-0668 Fax

### **FULTON NEWS**

**DUTCH MILLERS IN FULTON  
AUGUST 2010**

Fulton volunteer millers strive to execute their mission statement which includes: “(Fulton) millers...link our mill to mills and millers throughout the state, country, and world.”

Christiaan Smit and Andre Koopal, Dutch millers at Het Pink on the Zaan river, the Netherlands, spent two weeks in Fulton, Illinois, the summer of 2010 by invitation of Fulton’s volunteer millers and Friends of the Windmill. In the fall of 2009, three volunteer teachers at Fulton’s Windmill Cultural Center worked for a week in the Netherlands with a mill educator at Koog aan de Zaan and at that time they met Christiaan and Andre who teach a junior miller program at Het Pink.



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In addition to working at Fulton's mill and advising Fulton teachers on beginning a junior miller program, Christiaan and Andre visited area mills. Fulton's chief and assistant chief millers took them to Pella, Iowa, where they met with Lisa Steen Riggs of Elk Horn, Iowa. (Lisa and Andre are involved in volunteer positions for TIMS.) The visitors were given a personalized tour of Pella's windmill by its millers. The Dutchmen added two more mills to their list which they viewed at Geneva and Elmhurst in Illinois.

During their two weeks in Fulton, the Dutchmen greeted visitors at the mill, met with volunteer teachers at the Windmill Cultural Center, presented Power Points to Fulton millers, met with Fulton's tourism director, and enjoyed many tourist sites of the area. They were houseguests of a Fulton volunteer miller and had many opportunities for meals in Fulton homes. They spent the final weekend in Chicago.

Connections continued in September when TIMS board members visited the Fulton millers and toured *de Immigrant* and the Windmill Cultural Center. The international travelers talked about the countries they represented and the roles they play in the TIMS organization.

## **FULTON WINDMILL CULTURAL CENTER**

Newsletter

August 2010

The Windmill Cultural Center (WCC) in Fulton, Illinois, opened in the spring of 2010. WCC houses 21 model windmills representing ten European countries. All were made by Henk and June Hielema of DeMotte, Indiana, and given to Fulton. WCC is located opposite *de Immigrant* windmill which sits atop the dike along the Mississippi River and was dedicated in 2000.

The new building serves multiple purposes. The main exhibit area features the windmill models, their history, and cultural aspects of the countries. The education area

receives classes of school children who explore dry milling, wind power, and products from mills. It also serves as a learning center for children of families viewing the model mills. Here children play with gears, puzzles, and village sets, read books about the ten European countries, or use the computer. In addition, programs for millers and the general public are regularly scheduled. Weekly

adult programs are being planned for winter 2011. Volunteer educators arrange temporary exhibits. The gift shop features Dutch and local items and a licensed kitchen allows for the preparation of ethnic food.



The facility is owned by the City of Fulton, but it is administered and

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staffed by volunteers. Funding is with donations and grants. Both the mill and WCC are open 7 days a week, June through October and weekends in May. Details are found at [www.cityoffulton.us](http://www.cityoffulton.us).



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## Book Reviews

### LIST OF NEW PUBLISHED BOOKS



GERMANY

Buchbesprechung / Bookreview

Titel: KLEINE MÜHLENKUNDE

The two authors of this pocket-size book have many years of experience with large groups of visitors at mills. Philipp Oppermann works at the Open-Air-Museum “Internationales Mühlenmuseum – Gifhorn”, and Torsten Rüdinger is in charge of the famous mill at Potsdam Sanxoussie. Inspired by the many visitors each year, they wrote this book for all mill enthusiasts who want to learn a bit more than just the short information printed in a leaflet.

This book gives a comprehensive overview of the history of mills, the various types of mills and milling machinery and explains water- wind- and animal-powered mills. The function of mills not only for grinding, but also for sawing, water pumping and so on is explained and complemented with a lot of pictures. Some of the pictures are very unique and even for non-German readers, this book is a great value for education.

200 page / 400 pictures and drawings

Published by: (DGM) Deutsche Gesellschaft für Mühlenkunde und Mühlenerhaltung e.V.

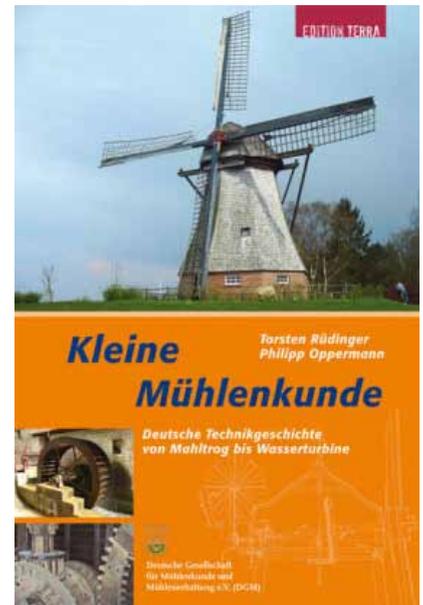
Price: 16,50 Euro + postage

Order at Amazon or direct from the printers:

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G. Bost / Germany



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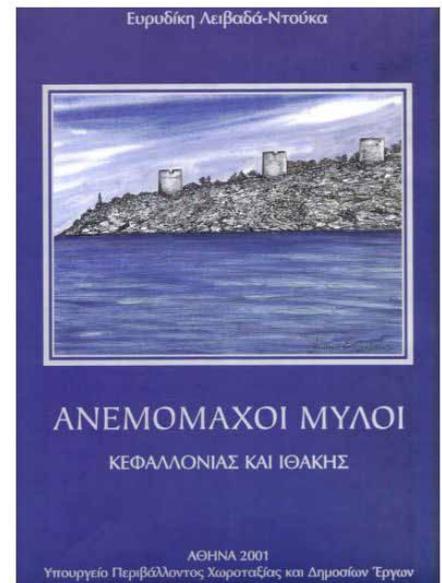
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## GREECE

Ευρυδική Λειβαδά-Ντούκα, Ανεμομάχοι μύλοι, Κεφαλονιάς και Ιθάκης.

Eurydice Livada-Ntouka, Wind fighting mills of Cephalonia and Ithaca, Ministry of Environment, Physical Planning and Public Works, Athens 2001.

The book is a thorough ethnographic approach to the windmills of the islands of Cephalonia and Ithaca. It addresses the issues of mill related terms etymology and mythology, a general picture and history of mills along with information of watermills in the area including the Argostoli sea mill, proverbs, superstitions and tales about mills, tools, weather prediction, old pictures and documents referring to the local mills along with their current status, the windmill mechanism, the life and work in the mill, architectural plans, an inventory of windmills and the localities where the mills can still be found or existed with 19<sup>th</sup> century mill related data, specific windmill presentation as case studies, a glossary with windmill terms, cereal cultivation and some statistics, bread and bread making.



The text is accompanied by many pictures, drawings and maps, give valuable additional information about the windmills in the two islands.

In this way the author gives a complete picture of the islands' windmills and the work environment.

The book is an excellent example on windmill information in Greece, as a field and desk research, and a very good publication.

The language is Greek with no foreign language summary.

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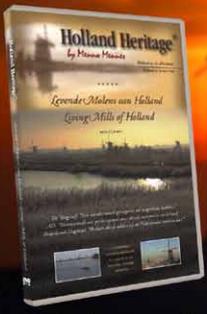
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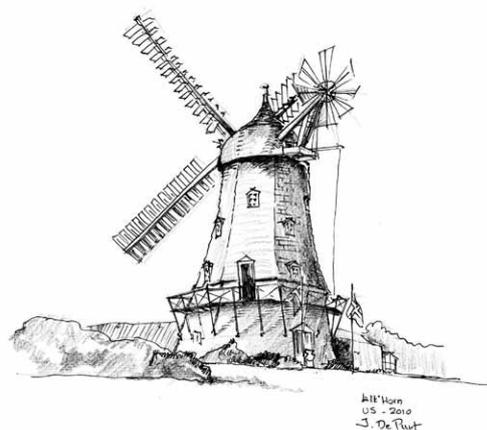
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## A MESSAGE FROM THE E-NEWS TEAM

Dear TIMS Members and Friends,

We hope you enjoyed the 9<sup>th</sup> edition of the TIMS E-newsletter.

I am personally looking forward to passing on the E-News editing to the new and willing E-news team to our Greek members Katerina Toutouza and Georg Spies for the future E-News. The idea of E-News came to fruition at one of our Council meetings about 8 years ago as a way to communicate with members between publications of TIMS and like all meetings if you suggest an idea you get nominated to do it! [Click here](#) to find all past E-Newsletters.



I enjoyed hosting the TIMS Council meeting back in September in the Midwest of the USA. We had an excellent meeting at the Mill City Museum in Minneapolis, Minnesota. At one time Minneapolis was home to some of the largest Commercial Flour Mills in the World. Check out their home page [www.millcitymuseum.org](http://www.millcitymuseum.org)



*Line Drawings by Johan DePunt,  
Belgium council member*

Following our meetings the TIMS Council and friends went on a Mill road trip for five days. The group of 14 representing the countries of Belgium, France, Netherlands, England, Germany and the USA then traveled to visit Mills in Minnesota, Illinois and Iowa plus one lonely mill in Nebraska. The best part of this trip was the fellowship we had together and people we met along the way. I'd like to give special thanks to our Mill friends in Fulton, Illinois and Pella, Iowa for providing us with complimentary meals.

*Lisa Steen Riggs*

[lisa@danishwindmill.com](mailto:lisa@danishwindmill.com)

*Wiard Beek*

[wiardbeek@gmail.com](mailto:wiardbeek@gmail.com)

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