

SEKTIONEN FÖR DETONIK OCH FÖRBRÄNNING

The Swedish Section for Detonics and Combustion
affiliated with *The Combustion Institute*
(www.combustioninstitute.org)



NEWSLETTER 4/2015 2015-09-17

Peace Technology

The planned “F” (for Fred/Peace) conference series intended to highlight technical, commercial, political and humanitarian challenges started with an unassuming ordinal number.

In Sweden we have been blessed with peace for two hundred years. Why we have been lucky so far, we cannot tell, so we cannot advice others. But what we can do is to help furthering peace actions by all possible means.

The relation between military ordnance and peace started already in 1901 when a Swedish inventor and manufacturer of explosives, instigated by Bertha von Suttner, founded the prestigious peace prize bearing his name; the 1905 one was given to Mrs. von Suttner.

The theme of the conference series is also such an ordnance - peace relation. Safe ordnance has since 1967 been the goal of the Section’s stability conferences (the S series), we will now add "peace" to a another international conference series. This because hindering the huge amount of old and deserted explosives and ordnance existing in the world today from being found and used by war lords and other peace obstacles is a concrete action furthering peace and peace awareness. Since stability knowledge on its cutting-edge level is required, we therefore title this conference series **Peace Technology** (Fredsteknik in Swedish).

The disposal (D) series is also related to peace technology in that safe disposal of the deserted ordnance found (personnel mines dug up in war-ridden areas by SWEDEC, for instance) is a delicate technical task.

The “F 0” seminar announced in the previous newsletter and held at the *Swedish EOD and Mine Clearance Centre*, SWEDEC, in Eksjö 2015-09-01--02 attracted more than twenty participants. Seventeen papers ranging from general peace-furthering activities to pure technical issues were presented. They are available at the Sections publication list at

www.sdfsweden.se

(The very last words on p. 40 make sense only for a booklet type of print-out.)

Among the decisions taken at the seminar was that a first international peace technology conference shall be combined with the 8th international disposal conference and held at Eksjö 5-6 September 2016. The 1st Circular and Call for Papers is attached to this newsletter.

Another decision was that a Swedish peace technology association should be formed. So it was 10 September 2015; the name chosen is **Svensk Organisation för FredsTeknik, SOFT**. The charter of foundation – the minutes of the meeting (translated into English) – is attached as Appendix I.

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Pave-makers for the F series.

From left to right: Rune Berglind, Fredrik Johnsson, Nils Örnebring, Kimmo Frondelius, Jack Gustavsson, Stig Johansson, Lars Ingelstam, Henrik Johansson, Johnny Ohlson, Dan Loyd, Bo Janzon, Hans Eriksson, Hans Wallin, Ulf Svensson, Linnea Krantz, Magnus Bengtsson, Roger Lundholm, Per Leffler.

Krutrull/Powder Rolling



Those passing the town of Huskvarna on Route E 4 have surely noticed a yellow house marked KRUTHUSET. Black powder (Sw. svartkrut) was manufactured there from 1689. The factory was shut down in 1796 after a devastating explosion. Whatever caused the disaster, it was not a product from the nearby Jönköping, The Match Town of the World; the two products were well separated in space and time (the match production started half a century later).

The sculpture is the work of a Huskvarna sculptor, Arvid Bryth by name. It calls to mind when schoolchildren were employed to roll powder barrels in order to prevent the content from clogging.

Photo: Section member Dr Raine Borg, who is the one seeing to it that “KRUTHUSET” was painted on the building – which is now a museum. In addition to the sculpture, his magnificent collection of locks and keys is also there to be seen, a display guided by himself.

AGW

Editor. Dr Torbjörn Lindblom

I M 2/2015 presenterade jag ett antal frågor till Miljöpartiet. Något svar på mina frågor om klimatet har fortfarande inte kommit. Av intresse i AWG-diskussionen kan kanske denna artikel om klimatet i DN från 5 september 2015 vara.

<http://www.dn.se/nyheter/sverige/johan-rockstrom-ar-miljororelsens-egen-piketty/>

Johan Rockström är agronom och miljövetare. Professor i "Miljövetenskap" vid Stockholms Universitet och chef för *Stockholm resilience center*. Han var 2004-2012 chef för *Stockholm environment institute*. I reportaget nämner han inte direkt faran med koldioxid. Pratar dock om kol och då är det snarast problemen med partiklar han avser. Erkänner att han inte känner till den minskade orkanfrekvensen samt nämner att det blivit mera skog, större skördar tack vare koldioxid samt att öknarna minskat. Detta är intressant nog helt i linje med det kritiska granskare av klimatdebatten säger, t.ex. Klimatsans (www.klimatsans.com)

Påståendet i artikeln att "vissa forskare visar att vi kanske aldrig mer får någon istid" finns dock ej belagt med några referenser. Kanske kan denna bild från 2011(Abdussamatov) ha visst intresse. ?

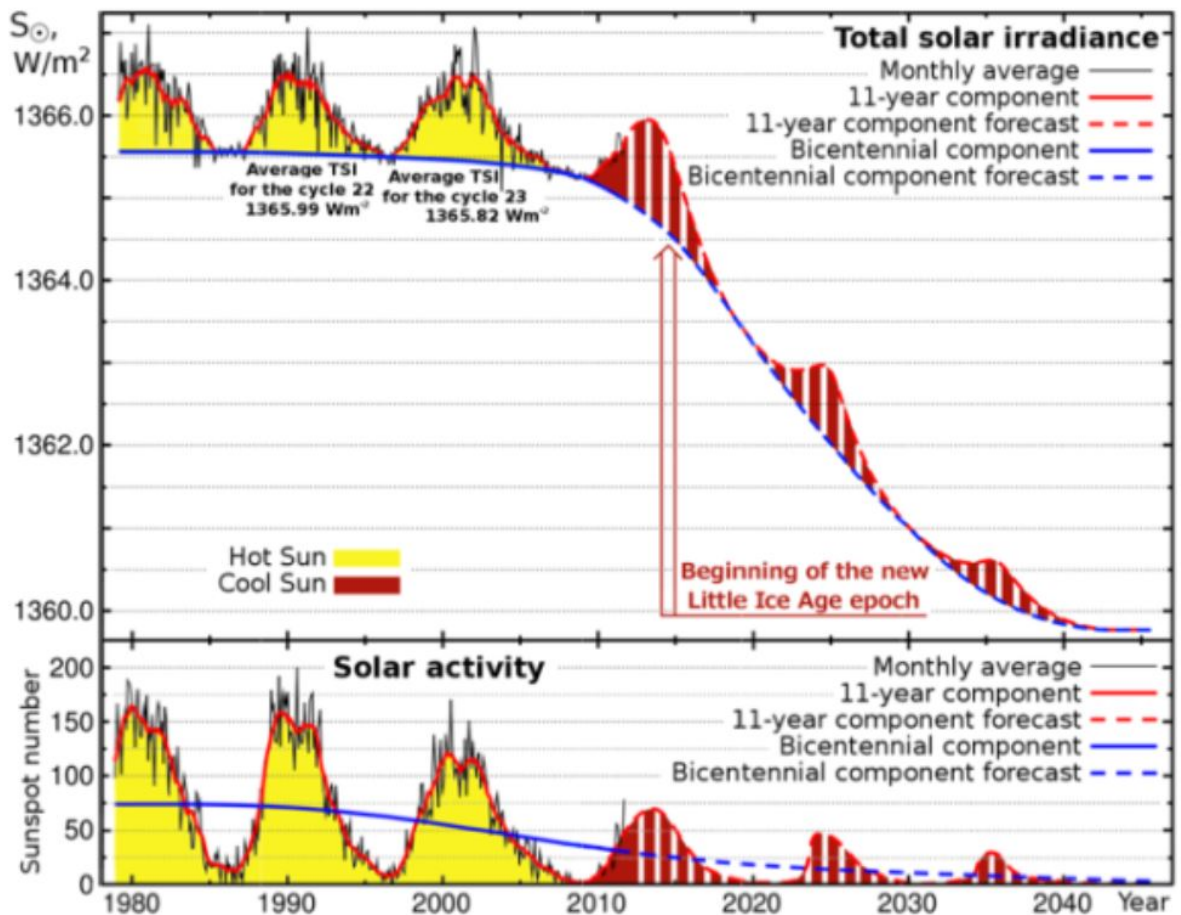
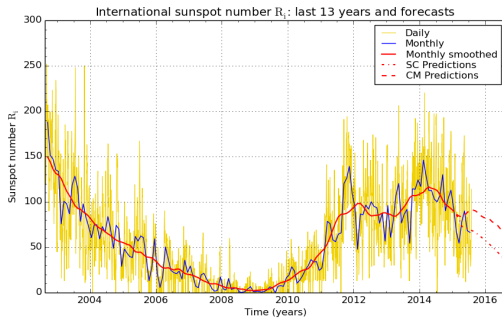
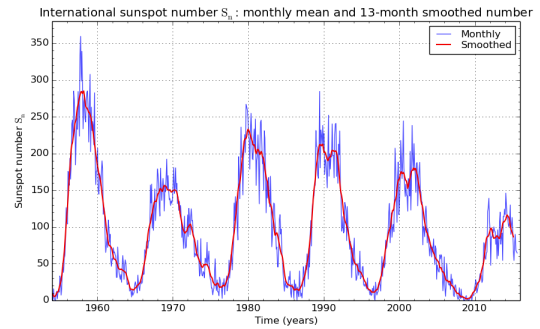


Figure 3. Variations of both the TSI and solar activity in 1978-2011 and a forecast of their variations in cycles 24-26 (up to the year 2045)

Prognosen man gör (år 2011) beträffande solfläckarna i denna bild är intressant, då den stämmer väl med idag observerade värden. Solfläcksmaximum i pågående cykel Nr 24 inträffade i mitten av år 2014.



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2015 August 1



SILSO graphics (<http://sidc.be/silso>) Royal Observatory of Belgium 2015 September 1

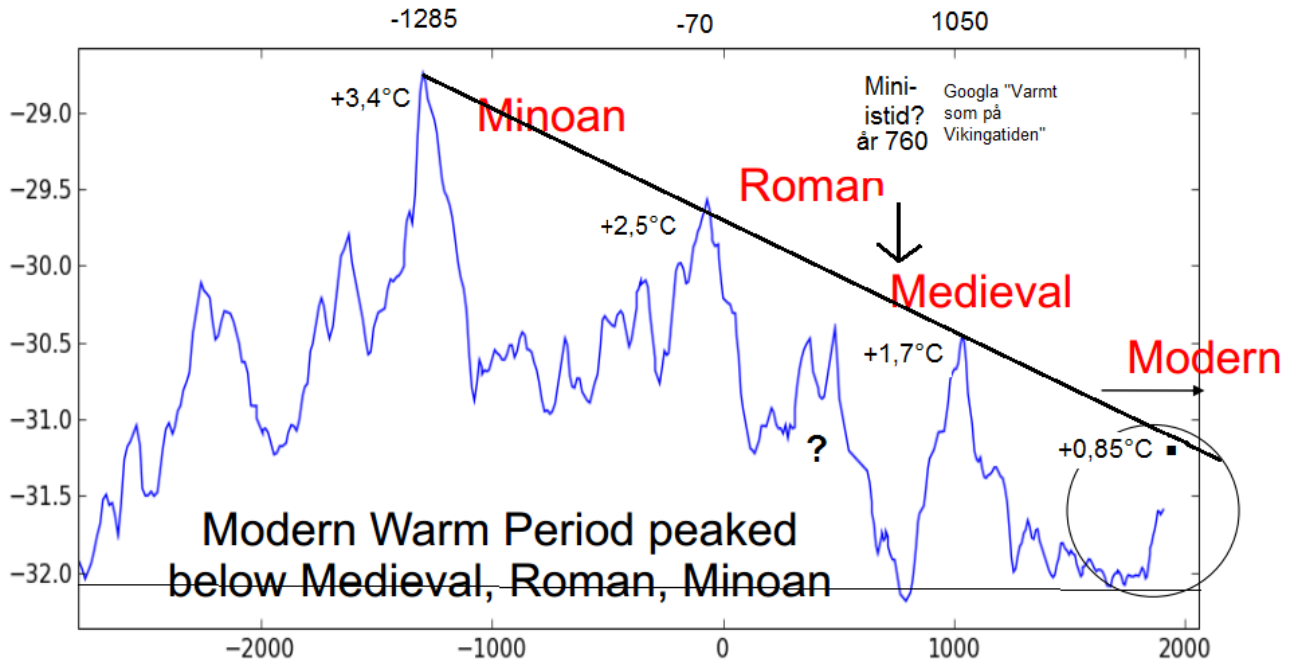
Intressant är också hur temperaturmaxima (som sammanfaller med olika högkulturer) under de senaste värmeperioderna efter senaste istiden avtagit i styrka.

Källa: Gordon Fulks (bearbetad bild ur hans föredrag).

Temperaturerna kommer från isborrkärnor tagna på centrala Grönland. Ordinaten i diagrammet nedan visar borrhälets temperatur i isen vid angivet årtal.

Topptemperaturangivelserna gäller från den inritade baslinjen.

<https://www.google.se/#q=global+warming+climate+orthodoxy+perpetuates+a+hoax> .



Kanske har detta någon betydelse? Intressant är att R^2 för denna linje är 0.998. En slump kanske? MEN, tänk om detta indikerar t.ex. en kommande "liten istid"? Den som lever får snart se vem som har rätt.

Enligt Abdussamatov är det ca år 2016 "lilla istiden" inleds. Solcykel 24 inledde en "kall solepok".

Conferences 2015

09-21--25 15th International Symposium on Fireworks.
Bordeaux, France. www.isfireworks.com.

11-01--03 2015 International Symposium on Environmental Science and Technology.
Chongqing, China. www.isest.com.cn. See Appendix II.
Among the topics are Environmental Toxicology and Chemistry. Asking for a Swedish expert in this field. The Section recommended Dr Rune Berglind, D-TOX AB, Umeå, who was invited to participate and to give lectures. His F 0 presentation can be found on pp. 4-6 in the F 0 programme.

2016

- 01-30--02-03 Blasters Weekend and 42nd Annual Conference on Explosives and Blasting Technique.
Las Vegas, Nevada, USA. www.isee.org.
- 04-20--22 19th International Seminar on "New Trends in Research of Energetic Materials (NITREX 2016)".
Pardubice, Czech Republic. www.ntrem.com.
- 05-09--13 29th International Symposium on Ballistics.
Edinburgh, Scotland. www.ballistics.org.
- 06-28--07-01 47th International Annual Conference of the Fraunhofer ICT.
Energetic Materials: Synthesis, Characterization, Processing.
www.ict.fraunhofer.de.
- 07-10--15 42nd International Pyrotechnics Seminar.
Grand Junction, Colorado, USA. <http://ipsusa.org/index2.htm>.
- 09-05--06 The 8th International Disposal Conference and the 1st International Peace Technology Conference.
Eksjö, Sweden, www.sdfsweden.se.

Education and Training

USA

Franklin Applied Physics. www.FranklinPhysics.com.

- 2015-09-09--11 Surface blasting
- 2015-09--12 Advanced Vibration Technology
Oaks, Pennsylvania

Appendix I.

Svensk organisation för fredsteknik (SOFT)/Swedish Organization for Peace Technology

Minutes of the formation meeting

Time and place: September 10th 2015 in Katrineholm, Sweden

Background

Peace technology is related to *technical devices and measures that can help to prevent violence and destruction and the removal of obstacles for the return to a normal peaceful society*. In Sweden there is a great competence in the field of Peace Technology among industry, state agencies, individuals and organizations. However this competence is under-utilised and is not developed to any great extent. Swedish competence and industrial resources could be utilized to transfer knowledge and develop equipment and materials to be delivered to States concerned as a part of the Swedish aid. Even in Sweden there are problems which justify a need for competence in the Peace Technology field.

The network "Initiative Peace Technology" has over the past year worked more actively to get attention to peace technology as a potential Swedish profile area. Now, this network is forming a non-profit organization to continue this work in a more structured and co-ordinated way.

Purpose

The purpose of the non-profit organization *Svensk Organisation för FredsTeknik (SOFT)* is to draw attention to and promote Peace Technology as a Swedish profile area. The organization shall support the UN SaferGuardprogram and its IATG. An overall target is to arrange a World Con-

ference on Peace Technology in Stockholm in 2017.

Membership

A member can be (1) business actors and organizations whose work touches the Peace Technology field, (2) individuals with an interest/expertise in the field of Peace Technology, (3) state agencies whose work is related to/in need of Peace Technology.

The Board of SOFT approves membership.

Protocol

1. Present at the meeting: Linnea Krantz, Hans Wallin, Jack Gustafsson, Kimmo Frondelius and Bo Janzon (by phone).
2. Election of the Chairman and the Secretary of the meeting: Linnea Krantz.
3. Election of person to adjust: Hans Wallin.
4. All present felt the organization should be formed.
5. The Chairman of the meeting confirmed that *Svensk Organisation för FredsTeknik* is formed.
6. Election of the interim Board of Directors: all present.
7. Election of interim President: Linnea Krantz.
8. The objective is that the interim Board of Directors during the up-coming months should be extended to include more representatives from companies/organizations/state agencies and individuals. Before the end of 2015 a Board of Directors will have been set and statues with lines of approach will have been drafted. In the early 2016 an annual meeting will be conducted.
9. Protocol of the meeting will be sent out by the Chairman. Hans Wallin was chosen to adjust.
8. Formation meeting ended.

Chairman/Secretary of the meeting

Linnea Krantz

Adjusted

Hans Wallin

Other points

- Interim President makes contact with representatives of companies/agencies/organizations as well as individuals and provides information about the organization.
- Date for upcoming working meeting will be decided after reconciliation with interested actors.

The SOFT symbol

As agreed at the Seminar, the art work “Intention” (see p. 13 in the F 0 programme) was chosen as a Peace Technology symbol.



A symbol for “Peace and a Peaceful World”.

Appendix II.

PRELIMINARY ANNOUNCEMENT AND CALL FOR ABSTRACTS
2015 INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Chongqing, China Nov. 1–3, 2015

2015 ISEST

Chinese Society for Environmental Sciences (CSES) Beijing Institute of Technology (BIT),
 China Chongqing Institute of Green and Intelligent Technology, Chinese Academy of
 Sciences **Organized by**

Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences
 Beijing Institute of Technology

Co-Chairmen

ZHAO Jincai, Institute of Chemistry, Chinese Academy of Sciences Dion. D. Dionysiou, University of
 Cincinnati, USA **Executive Chair** LIU Hong, Chongqing Institute of Green and Intelligent Technology,
 Chinese Academy of Sciences

2015 International Symposium on Environmental Science and Technology (2015 ISEST) is to be held in
 Chongqing, China, Nov. 1–3, 2015. It is a continuation of the previous three international symposia held in
 Beijing (2007), Shanghai (2009), Dongguan (2011) and Dalian (2013) respectively. The purpose of this
 symposium is to provide an up-to-date discussion in the field of environmental science and technology in
 general. During the symposium, there will be a special session honoring Prof. David Waite.

Theme

Technology in Sustainability of the Environment

Subjects and topics

Papers will cover fundamental aspects, technical approaches and/or the related areas as follows: Ø
 Remediation Technology for Polluted Air, Water and Land (Soil, Waste Solid) Ø Waste Recycling Ø
 Environmental Monitoring and Assessment
 Ø Environmental Toxicology Ø Environmental Chemistry Ø Environmental Sustainability

Instructions for abstract preparation

All those interested in presenting a contribution are invited to submit a proposed Title, Author(s) Name,
 Affiliation (with mailing address, email address) and a 300–500 words abstract that may include purpose,
 results, significance and comparison with the past, to ISESTCN@hotmail.com through email. The deadline
 for receipt of the abstracts is was **July 30, 2015**.

Registration fee

The registration fee is US\$ 500. This includes one copy of the Proceedings of the Symposium, banquet,
 meals, coffee breaks and the tour after the technical session. The fee for each accompanying visitor is
 US\$250. This includes reception, banquet, meals, shopping guide and the tour after the technical session.
 Additional fees are charged for special functions.

Website

For up-to-date information on the symposium, please visit the website <http://www.isest.com.cn>.

Conference language is English, which will be used for all the presentations and printed materials.

Exhibition

Limited exhibition space in the lobby of the symposium hall is provided for products, equipment and
 advertising material relevant to the topics of the symposium.

City of Chongqing

Chongqing is a major city in Southwest China and one of the PRC's four direct-controlled municipalities,
 and the only such municipality in inland China. Chongqing has a significant history and culture and serves
 as the economic centre of the upstream Yangtze basin.

Secretariat

All those interested in attending the Symposium and in receiving further information are welcome to
 contact:

Prof. FENG Changgen or Dr. LI Shengcai Editorial Department of Journal of Safety and Environment
 Beijing Institute of Technology

P. O. Box 327 Beijing 100081, China Email: ISESTCN@hotmail.com Tel: +86-10-68913997

Further information about the Symposium will be sent to you as soon as it is available.