

Become inspired!

Plastic materials have never before encompassed so many areas and there have never been more innovations or more possibilities. Join us and become inspired – for future success.

Welcome!

PLASTTEKNISKE DAGER 2006

Clarion Hotel Oslo Airport, Gardermoen 8.-9. nov.

This years **Plasttekniske Dager** is almost here. Never before have plastic materials encompassed so many areas with such numerous possibilities!

Plasttekniske Dager 2006 emphasizes automation. Several of the entries will cover this - because automation includes solutions for continuous growth and increased productivity.

Some of the other program entries include:

- patents on processes and products
- success stories from Norwegian companies.
- replacement materials
- materials and additives
- nano materials
- smart materials
- myths about China

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Dag 1

FIRST DAY, NOV. 8 – PLENARY MEETING

Moderator: Peter Sundt, *Mepex Consult AS*

11:00-12:30 Registration and lunch

12:30 Opening – and short update from last years conference. What are the results? Asle Isaksen, *Plastforum*.

The future belongs to plastic materials

12:45-13:15 ...and plastics belong to the future! Dr. David Cadogan, Director of the European Council for Plasticisers and Intermediates (ECPI).

13:15-13:45 Gassmaks – from Natural Gas to Plastics. New possibilities for Norway. Dept. Manager Egil Eike, *Research Council of Norway*.

13:45-14:15 Polimoon shall be a leader in Europe. CEO Arne Vraalsen, *Polimoon ASA*.

14:15-14:45 Stretch your legs and browse the exhibition.

The good examples

14:45-15:15 Converting to plastic produced a heat wave for *Oso Hotwater*. Vice president Terje Bøe, *Oso Hotwater AS*.

15:15-15:45 Modern product development requires new production solutions. Managing Director Rolf Erik Lervik, *HV Plast*.

15:45-16:15 Raufoss – strong development for plastics. Sverre Narvesen, *RTIM*.

16:15-16:45 Rotational molding of high tech products. Sales Manager Walter Bonazzi, *Polivinil Rotomachinery S.p.A*.

16:45-17:15 Coffee, cakes, exhibits, stretch your legs.

Projects, network and funding

17:15-18:00 About...

• Arena-projects.
Olav Bardalen, *Innovasjon Norge*.

• EU's 7th framework program ready to start. Special adviser Astrid Brenna, *Research Council of Norway*.

• R&D investments through EU-network. Rune Nilsen, *Pera Norge AS*.

18:00 End of conference programs first day.

Displays, annual meeting and dinner

18:00-19:00 Annual meeting in PVC Forum Norway

19:30 Aperitif in "Luftrommet"

19:45 What is the future outlook for the plastics branch in the Nordic countries? Dinner speaker Torbjørn Trångteg, *Plast & Kemiföretagen*.

20:15 Dinner in "Luftrommet"

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SECOND DAY NOV. 9 – VARIOUS SESSIONS/ CONCLUSION IN PLENARY

Choice of sessions,
choose among the
various subjects.

SESSION 1 – INJECTION MOLDING

Moderator: Erik Andreassen,
SINTEF Materials and chemistry.

- 08:30-09:00 **Two component founding with robot and simple machines.** Tech. Mgr. Martin Fremstad, *Swix Sport AS.*
- 09:00-09:30 **A tool industry in Norway?** Manag. Dir. Torstein Ertsgaard, *Stjørdal 3D Verksted AS.*
- 09:30-10:10 **Injection molding with metalpowder and ceramics – a challenge for the plastics industry?** Team Manager Steffen Eppler, *ARBURG GmbH + Co. KG.*
- 10:10-10:30 **Exhibits, coffee and stretch your legs**
- 10:30-11:00 **Rapid Tooling – Rapid Manufacturing. Where are we and where are we headed?** Brian Christensen, *Damvig Develop A/S.*
- 11:00-11:30 **Simulation of injection molding with Moldex3D – what is possible?** Peer Guldbrandsen, *FlowHow ApS.*

SESSION 2 – PLASTICS IN THE AUTOMOTIVE INDUSTRY

Moderator: Asle Isaksen, *Plastforum.*

- 08:30-09:00 **Network “Car 2010”: About Norwegian investment in the auto industry.** Odd Myklebust, *Nettverket Bil 2010/RTIM.*
- 09:00-09:30 **Without current, but not without ideas. New possibilities for Think.** Technology Development Manager Øystein Asphjell, *Think Technology.*
- 09:30-10:00 **The Cage System – Tool Surface Heating Technology. How to fabricate thermoplastic car bonnets in only four minutes?** Business Dev. Mgr. Matt Boulanger, *RocTool.*
- 10:00-10:30 **Exhibits, coffee and stretch your legs.**
- 10:30-10:45 **Q&A regarding The Cage System**
- 10:45-11:30 **Vacuумforming in strong growth – Thin & Thick Gauge Vacuumforming for Automotive Applications.** Stefan Radlgruber, *Senoplast GmbH.*

SESSION 3 – INNOVATIVE PRO- DUCTS – NEED FOR PATENTS

Moderator: Jon Hermansen, *Biobe AS.*

- 08:30-09:00 **Textiles as construction materials.** Anders Bergner, R&D mgr. in *Nordia AB.*
- 09:00-09:30 **BIA – an effort to bring fourth innovative products.** Special adviser Astrid Brenna, *Research Council of Norway.*
- 09:30-10:00 **Pipe sealants that hold tight.** Alf Greve Monsen, *Raufoss Water & Gas.*
- 10:00-10:30 **Exhibits, coffee and stretch your legs.**
- 10:30-11:00 **Madshus and Rottefella – innovative alliance produces results.** Civ. Eng. Bernt O. Hauglin, *Rottefella AS.*
- 11:00-11:30 **Thus we need patents.** Kari Simonsen, *Onsagers AS.*

SESSION 4 – MATERIALS AND ADDITIVES

Moderator: Einar L Hinrichsen, *SINTEF Materials and chemistry.*

- 08:30-09:00 **Additives for better shine and better properties – environmentally friendly softeners.** Dr. David Cadogan, *ECPI.*
- 09:00-09:30 **Use of Zinc borate as smoke suppressant and for improved flame retardancy.** Klaus Lien, *Scan Polymer AS.*
- 09:30-10:00 **Nano materials, also in practical use.** Product Manager Thomas Bohlin, *Univar Nordic.*
- 10:00-10:30 **Exhibits, coffee and stretch your legs.**
- 10:30-11:00 **Metal replacements.** Fredrik Ljungman, *Erteco Rubber & Plastics.*
- 11:00-11:30 **New construction possibilities with intelligent polymers.** Dr. Swaraj Paul, *PP Polymer.*



SESSION 5 – ENVIRONMENT & RECYCLING

Moderator: Information mgr. Eirik Oland, *Emballasjeretur AS.*

08:30-09:00 **Additives for better shine and better properties – environmentally friendly softeners.** Dr. David Cado-gan, *ECPI.*

09:00-09:30 **Degradable plastics in re-cycled materials – what do we know?** Senior researcher Åge Larsen, *SINTEF Materials and chemistry.*

09:30-10:00 **Folldal, a duster for recovered plastics. Use of recycled material in new products.** Manag. Dir. Morten Lindvik, *Folldal Produksjon AS.*

10:00-10:30 **Exhibits, coffee and stretch your legs.**

10:30-11:00 **REACH and new Norwegian chemical laws.** Manager Sverre Høstmark, *Federation of Norwegian Industries.*

11:00-11:30 **Better environment, better collection of used plastics.** Man. Dir. Bjørn Hoel, *Ragn-Sells AS.*

PLENARY MEETING

Moderator: Peter Sundt, *Mepex Consult AS.*

Future

11:45-12:10 **Robots in future plastic factories – what do they do and what do they look like?** Export Sales Manager Wilfried Hagn, *Wittmann Kunststoffgeräte GmbH.*

12:10-12:35 **RFID – cannot to be avoided.** Bård Myhre, *SINTEF IKT.*

12:35-13:00 **Plastics image. How can we improve it?** Jan Erik Johansson, *Plastics Europe.*

13:00 **End of formal conference program**

13:10 **Lunch**

14:00 **Departure for TI Automotive Group, Kongsvinger.** Visit one of Norway's most automated production companies.

SUCCESS STORIES, COMPANY VISIT, ANNUAL MEETING AND EXHIBITION

OSO Hotwater has recently converted from steel to plastic. This has had consequences for internal thinking and has produced interesting viewpoints for suppliers, machinery etc.

The development at **Polimoon** is extremely interesting. Stock analysts recommend buying and the group is on the way to becoming a profitable big player in Europe.

We have neither forgotten **recycling and environment**, nor the various methods of **reworking**. Most of the visitors will observe things that will captivate their interest at *Plasttekniske Dager!*

The closing visit to **TI Automotive** at Kongsvinger is included for those who would like to see one of Norway's most automated companies in full production.

The PVC industry has decided to hold its **annual meeting** at the same hotel and time. This again means that we are a more comprehensive group than we were last year. This is promising for **network building** and the overall view.

The Clarion Hotel at the Oslo Airport is **very fitting for the exhibition**. We have rented one entire wing of the hotel. There is more than adequate space for companies that would like to display their products or processes.

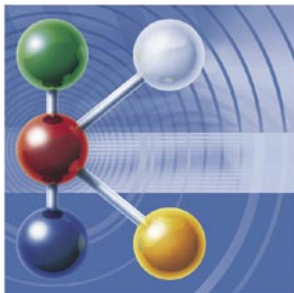
The program will be **continuously improved and updated** until the starting date. Download the latest version from our web pages. – see www.plastforum.no

See You at Clarion Hotel Oslo Airport, Gardermoen, 8.–9. nov. 2006.

Asle Isaksen
ASLE ISAKSEN, CHIEF EDITOR PLASTFORUM

PLAST FORUM

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EXHIBITORS ON PLASTTEKNISKE DAGER 2006:

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Animex AB
Battenfeld Sverige AB
CCS AS
Crown Norge AS
Englmayer A/S
Erteco Rubber & Plastics
Grønt Punkt Norge
IntEx AS/Messe Düsseldorf
KUKA Sveisanlegg + Roboter
Labotek A/S/Scan Polymer AS
Messtech AS
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Polivinil Rotomachinery S.p.A
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