

# CV

## Dr. Dan Forsström

Date of CV: 2016-01-01

## CONTACT DETAILS

Matrosgatan 7  
SE-761 41 Norrtälje  
Sweden  
Mobile: +46 70 6042 006  
Email: [dan.forsstrom@polymira.se](mailto:dan.forsstrom@polymira.se)

## EDUCATION

### Dr. Polymer technology

- KTH, Royal Institute of Technology, Sweden, 1993-1999
- Doctoral Thesis 1999; "Novel Techniques For Characterisation Of The Oxidative Stability of Polyamides"

### Master of Science, KTH, Sweden

- KTH, Royal Institute of Technology, 1983-1987
- Chemical technology, 1983-1987

## POSITIONS

### Polymira AB, 2011 - present

- Technical consultancy company
- Owner, CEO since 2011 – present
- Visiting address (laboratory premises): Polymira AB, Stockholmsvägen 59, SE-761 43 Norrtälje, Sweden.
- Postal address: Polymira AB, Matrosgatan 7, SE-761 41 Norrtälje, Sweden
- Web page: [www.polymira.se](http://www.polymira.se)
- Polymira offer technical solutions for industry related to polymer materials
  - Polymer technology
  - Material development
  - Advanced material technology
  - Epoxy development
  - Surveillance testing of propellants
  - Simulation and modelling

### FORCE Technology Sweden AB, 2006 – 2011

- Technical consultancy company
- Project manager / Plastics and composites

- Assisting customer with technical solution related to polymer materials
- Co-ordinating the polymer field within Denmark, Norway and Sweden
- Supervisor for M.Sc. master thesis

**Bodycote Materials Testing AB, 2005 – 2006**

- Bodycote Materials Testing was a technical consultancy company
- Technical consultancy company
- Project manager / Polymer materials
- Technical consultancy for offshore
  - Surveillance testing and safety aspects related to storage of energetic materials
  - Marketing & sales
  - Risk analysis and Life time extension of energetic products
  - Life Time Analysis – methodology for estimating interactions between components, materials and environment
  - Database management

**Thermometric AB, 1999 – 2005**

- Thermometric was manufacturer of calorimetric equipment
- Project manager / Application specialist calorimetry
  - Marketing & sales worldwide
  - Education with training & courses in calorimetry
  - Development of promotion materials
  - Organise seminars
  - Technical support for distributors worldwide
  - Supervisor for M.Sc. master thesis

**Celsius Materials CMK AB, 1993 – 1999**

- Celsius Materials CMK was a technical consultancy company
- Work included 75 % of full time as industrial PhD-student at KTH and 25 % as project manager.
- Stability and life time of polymer materials
- Compatibility, stability and surveillance testing of energetic materials
- Risk analysis
- Life Time Analysis
- Life time extension
- Promotion of service related to polymer materials
- Development of databases in MS Access

**The Swedish Plastic & Rubber Institute, 1987-1993**

- Project manager
- Material development of thermoplastics
- Life time of polymer materials

## COMMISSION OF TRUST

1. Member of the examining committee at KTH/Dept. of Polymer technology during the dissertation of Erik Linde at 2015-06-11 defending his thesis "*Polymeric materials in nuclear power plants*", 2015.
2. Industrial supervisor for M.Sc.-student Christopher Muturi at KTH, School of engineering science, Solid mechanics; "*Characterization of viscoelastic properties of an epoxy composite and simulation of time dependent deformation of an annulus seal under load*", 2014.
3. Industrial supervisor for M.Sc.-student Anton Wagner at KTH, School of engineering science, Solid mechanics; "*Simulation of strength in chemically degraded composites*", 2009.
4. Member of the examining committee at KTH/Dept. of Polymer technology during the dissertation of Gunnar Karlsson at 2003-06-07 defending his thesis "Diffusion in Poly(vinyl alcohol) and Polyethylene as Determined by Computational Simulations and Modelling", 2003.
5. Industrial supervisor for M.Sc.-student Anneli Virenius, KTH/Dept. Of Polymer technology, "*The use of Isothermal Microcalorimetry to study Gas Permeability of Polymer Films*", 2002.
6. Cited in the paper: "New multi-cell imaging chemiluminescence (ICL) instrument to evaluate the stability of polymers"; *Polymer Testing*, Volume 22, Issue 4, June 2003, Pages 363-369; M. Hamskog, G. Ahlblad, G. Färnert, P. Gijnsman and B. Terselius.
7. Member of the management team for Thermometric AB during 1999-2003.

## LANGUAGES

- Swedish
- English

## IT - SKILLS

Long experience of using PC and various types of software.

- MS Office 2013 professional
- SharePoint
- MatLab
- Comsol Multiphysics
- Adobe Photoshop
- Adobe InDesign
- Among others

## PEDAGOGIC SKILLS

- Teacher for students at KTH
- Teacher for Thermometric distributors worldwide in calorimetry
- Lecturers at international conferences worldwide
- Internal training courses in polymer technology and calorimetry

## LIST OF PUBLICATIONS

- 12 scientific papers have been published during the period 1992-2007. Six of these were published after finishing PhD-studies in 1999. For details refer to Appendix 1.

## CONFERENCES

Participated in 11 international conferences during the period 2000-2004. For details, refer to Appendix 1.

## APPENDIX 1

### Papers

1. The long-term stability of sodium percarbonate in presence of zeolite as measured by heat flow calorimetry; Tenside, Surfactants, Detergents 44 [4] 210-217 (2007); C. Johansson, P. Pekonen and D. Forsström.
2. The effect of adding virgin material or extra stabilizer on the recyclability of polypropylene as studied by multi-cell imaging chemiluminescence and microcalorimetry; Polymer Degradation and Stability 91 (2006) 429-436; M. Hamskog, M. Klugel, D. Forsström, B. Terselius, P. Gijsman.
3. The effect of base stabilization on the recyclability of polypropylene as studied by multicell imaging chemiluminescence and microcalorimetry; Polymer Degradation and Stability, Volume 86, Issue 3, December 2004, Pages 557-566; M. Hamskog, M. Klügel, D. Forsström, B. Terselius and P. Gijsman
4. Forsström D., Hamskog, M., Eriksson, P. and Terselius, B.; "Oxidation of Unstabilised Polypropylene Particles as Studied by Microcalorimetry and Chemiluminescence Techniques"; Polym Degrad Stab 2003; 81: 81-88
5. Eriksson, P, Stenberg, B. and Reitberger, T. and, Forsström, D.; "The Simultaneous Detection of Heat flow and Chemiluminescence Intensity During Oxidation of Unstabilised Polypropylene Particles."; Polymer Testing, Vol 22, Issue 8 , December 2003, Pages 915-921

6. Olabarrieta, I., Forsström, D., Gedde, U. W. and, Hedenqvist, M. S.; "Transport Properties of Chitosan and Whey Blended with Poly(epsilon.-caprolactone) assessed by Standard Permeability Measurements and Microcalorimetry"; *Polymer* (2001), 42(9), 4401-4408.
7. D. Forsström, B. Terselius, "Thermo oxidative stability of polyamide 6 films I. Mechanical and chemical characterisation", *Polym. Deg. and Stab* 67 (1) (2000) pp. 69-78.
8. D. Forsström, L.-G. Svensson, B. Terselius, "Thermo-oxidative stability of polyamide 6 films. III. Isothermal microcalorimetry", *Polym. Deg. and Stab* 67 (2) (1999) pp. 263-269.
9. D. Forsström, T. Reitberger, B. Terselius, "Thermo-oxidative stability of polyamide 6 films. II. Chemiluminescence techniques", *Polym. Deg. and Stab* 67 (2) (1999) pp. 255-261.
10. G. Ahlblad, D. Forsström, B. Stenberg, B. Terselius, T. Reitberger, L. Svensson, "Oxidation profiles of polyamide 6,6 studied by imaging chemiluminescence and FTIR", *Polym. Deg. and Stab* 55 (3) (1997) pp. 287-293.
11. D. Forsström, A. Kron, B. Stenberg, B. Terselius, and T. Reitberger, "Chemiluminescence analysis technique-Performance and influencing parameters", *Polym. Deg. and Stab.*, 43 (1994) 277-284.
12. D. Forsström, A. Kron, B. Mattson, T. Reitberger, B. Stenberg and, B. Terselius "Applications of chemiluminescence in rubber research", *Rubber Chem. Technol.* (1992), 65(4), 736-43.

## Conferences

1. ICCT 2000, Halifax, Nova Scotia, Canada, 6-11 August 2000
2. ICTAC 2000, Copenhagen, Denmark, 14-18 August 2000
3. MoDeSt 2000, Palermo, Italy, 3-7 September 2000
4. JCAT33, France, 29-31 May 2002
5. MoDeSt, Budapest, Hungary, 30 Juni-4 July 2002
6. Calorimetry Symposium, Lanzhou, China, 15-18 August 2002
7. ITAC, Catania, Italy 15-18 December 2002
8. JCAT34 Mulhouse France, 21 May 2003
9. Europolymer Congress 2003, KTH, Stockholm, Sweden, 23-27 June 2003
10. ICCT 2004, Beijing China, 17-21 August 2004
11. ICTAC13, Sardinia, Italy, 12-17 September 2004