



# CV for Per Stobbe

Born: October 4<sup>th</sup> 1953

Education: Mechanical Engineer 1982-1986 from the Danish Technical University

Memberships: ESACT – European Society for Animal Cell Technology, ISSCR - International Society for Stem Cell Research

## Companies

1985 - President of the Stobbe Tech A/S group of companies, see [www.stobbe.com](http://www.stobbe.com)

1987 - 1994 created the world first bi-modal ReSiC technology for DPF

1990 - 1996 created and CEO for NoTox A/S manufacturing DPF

1998 - 2004 created and CEO for LiqTech A/S now manufacturing DPF

2007 - 2009 created HelioPower Pty.Ltd. in South Africa for production and sales of solar panels

2007 - 2010 created HelioPower A/S in Denmark for production and sales of solar panels

2009 - CEO in Stobbe Group companies for the production and sales of equipment for the pharmaceutical industry

## Awards

Descartes Prize 2006 as partner in the HydroSol project for Excellence in Scientific collaborative Research

Project leader, co-ordinator or partner:

### **Danish Department of Energy's Research:**

- 1987 to 91, R&D project for scientific studies of porous structures for diesel particulate filters and hot gas dust filters with a 2 mil EURO budget.

### **Danish Department of Industry, Research & Development:**

- 1991 to 94, development project for ceramic hot gas filters with a budget >1 mil ECU.
- 2008-2010 – Glycomics, bioreactor development – budget 35 mioDKK
- 2011-2011 – Bioreactor development

### **European Commission sponsored research programs:**

- 1998 - 2001 - Hotgasys - with the budget of 1.9 mio EURO - project manager and initiator
- 1998 - 2001 - Cerfil - with the budget of 2.7 mio EURO - project manager and initiator
- 2000 - 2003 - SolAir - with the budget of 2.7 mio EURO - Solar Thermal Electrical Power Plant development
- 2001 - 2004 - NanoSponge - with budget of 3 mio EURO - project manager and initiator
- 2000 - 2004 - CelSiC - development of ceramic membranes together with Saint-Gobain - project manager and initiator
- 2002 - 2005 - HydroSol 1 - with budget of 3 mio EURO - Hydrogen production
- 2005 - 2008 - FlameSOFC - with budget of 7 mio EURO – SOFC based household heater
- 2006 - 2009 - HydroSol 2 - with budget of 3 mio EURO - Hydrogen production
- 2007 - 2010 - Atlantis - with budget of 6 mio EURO – bioreactor development
- 2011 - 2013 - GlucoCell together with Swiss partner's C-CIT and IBT ZHAW.
- 2013 - 2016 - HESUB - with budget of 6 mio EURO – bioreactor development

1988 - 1996 Supervisor, project leader and censor for students at:

- Engineering College of Copenhagen
- Technical College of Copenhagen
- Technical University of Denmark

Publications:

### List of scientific articles in international journals:

- SAE paper 932495, **Stobbe P.**; Henrik G.Pedersen, J.W.Høj, S.C.Sorenson, "SiC as a Substrate for Diesel Particulate Filters", 1993.
- SAE paper 940236, Sorenson S.C.; Jakob W. Høj, **Stobbe P.**, "Flow Characteristics of SiC Diesel Particulate Filter Material", 1994
- SAE paper 950151, Høj, Jakob W.; **Stobbe P.**; S.C.Sorenson, "Thermal Loading of Silicon Carbide Particle Filters, 1995
- SAE paper 960129, **Stobbe P.**, Høj J.W., Pedersen H.G., Sorenson S.C., "A New Closing Method for Wall Flow Diesel Filters ", 1996.
- SAE paper 970181, Sorenson S.C., Ladegaard N., Gratz L., **Stobbe P.** "Fuel Additive Effects on Particulate Emission from a Diesel Engine", 1997.
- Elsevier, 2005 "Solar Energy Materials & Solar Cells", CETH/CPERI; DLR; CIEMAT; **Stobbe P.**, "Solar water splitting for hydrogen production with monolithic reactors"
- ASME Proceedings ISEC2005-76126, DLR; CETH/CPERI; **Stobbe P.**; Johnson Matthey, "Solar Hydrogen Production by a two-step cycle based on mixed Iron Oxides"
- ASME Journal of Solar Energy Engineering, May 2006; DLR; CETH/CPERI; **Stobbe P.**; Johnson Matthey, "Solar Hydrogen Production by a two-step Cycle Based on Mixed Iron Oxides"
- Elsevier 2007, "Solar Energy Materials & Solar Cells", CETH/CPERI; DLR; CIEMAT; **Stobbe P.**; SoluCar. "Evaluation of porous silicon carbide monolith honeycombs as volumetric receiver/collector of concentrated solar radiation"
- Journal of Biotechnology, 2015, "Very high cell density perfusion of CHO cells anchored in a non-woven matrix-based bioreactor", Royal Technical University, Sweden, Chotteau V., CerCell, Denmark, **Stobbe P.**

### List of patents:

>55 inventions applied for a patent since 1988 of which the most recent are:

- CerCore – bioreactor - PCT/2009/000259
- CerPhragm – pump - PCT/2009/000261
- CellMembra – bioreactor – PCT/EP2016/061000