

January 19, 2015



Sigurd Skogestad

Graduated PhD students (with present affiliation)

1. Thor Mejdell, *Estimators for product composition in distillation columns*, Nov. 1990. (SINTEF, Trondheim)
2. Elling W. Jacobsen, *Studies on dynamics and control of distillation columns*, Dec. 1991. (Professor at KTH, Stockholm)
3. Morten Hovd, *Studies on control structure selection and design of robust decentralized and SVD controllers*, Oct. 1992. (Professor at Engineering Cybernetics, NTNU, Trondheim)
4. Knut W. Mathisen, *Integrated design and control of heat exchanger networks*, April 1994. (Yara, Porsgrunn)
5. Erik A. Wolff, *Studies on control of integrated plants*, July 1994. (Worked with ABB in Oslo; deceased 2004)
6. Eva Sørensen, *Studies on optimal operation and control of batch distillation columns*, Aug. 1994 (Professor at University College, London)
7. H. Petter Lundström, *Studies on robust multivariable control of distillation columns*, Aug. 1994. (Energos, Trondheim)
8. John C. Morud, *Dynamics and control of integrated plants with reactors*, Apr. 1996. (SINTEF, Trondheim)
9. Ying Zhao, *Studies on modeling and control of continuous biotechnical processes*, Aug. 1996. (Cominco, Canada)
10. Atle C. Christiansen, *Studies on optimal design and operation of integrated distillation arrangements*, Jan. 1998. (Point Carbon, Oslo)
11. Kjetil Havre, *Studies on controllability analysis and control structure design*, Feb. 1998. (SPT Group, Oslo)

12. Bernd Wittgens, [Experimental verification of dynamic operation of continuous and multivessel batch distillation](#), Dec. 1999. (SINTEF, Trondheim)
13. Truls Larsson, [Studies on plantwide control](#), Aug. 2000. (Aker Kværner, Stavanger)
14. Eva-Katrine Hilmen, [Separation of azeotropic mixtures: Tools for analysis and studies on batch distillation operation](#), Des. 2000. (ABB, Oslo)
15. Ivar J. Halvorsen; [Minimum energy requirements in complex distillation arrangements](#), May 2001. (SINTEF, Trondheim)
16. Marius S. Govatsmark, [Integrated optimization and control](#), Sept. 2003. (Statoil, Haugesund)
17. Audun Faanes, [Controllability analysis and control structures](#), Sept. 2003. (Statoil, Trondheim)
18. Hilde K. Engelién, [Process integration applied to the design and operation of distillation columns](#), March 2004. (Aker Kværner, Trondheim)
19. Stathis Skouras, [Heteroazeotropic batch distillation: Feasibility and operation](#), May 2004. (Statoil, Haugesund/Trondheim)
20. Vidar Alstad, [Studies on selection of controlled variables](#), June 2005. (Yara, Porsgrunn)
21. Espen Storakaas, [Stabilizing control and controllability: Control solutions to avoid slug flow in pipeline-riser systems](#), June 2005. (ABB, Oslo)
22. Antonio C.B. Araujo, [Studies on plantwide control](#), Jan. 2007. (Ass. Prof., Federal University of Campina Grande, Brazil)
23. Tore Lid, [Data reconciliation and optimal operation - With applications to refinery processes](#), June 2007 (Statoil, Bergen)
24. Federico Zenith, [Control of fuel cells](#), June 2007 (SINTEF Cybernetics, Trondheim)
25. Jørgen B. Jensen, [Optimal operation of refrigeration cycles](#), May 2008 (ABB, Oslo)
26. Heidi Sivertsen, [Stabilization of desired flow regimes using active control](#), December 2008 (Statoil, Stjørdal)
27. Elvira M.B. Aske, [Design of plantwide control systems with focus on maximizing throughput](#), March 2009 (Statoil, Trondheim)

28. Andreas Linhart, [An aggregation model reduction method for one-dimensional distributed systems](#), Oct. 2009 (Conergy AG, Hamburg).
29. Henrik Manum, [Simple implementation of optimal control for process systems](#), Nov. 2010 (Cybernetica, Trondheim).
30. Jens P. Strandberg, [Optimal operation of dividing wall columns](#), June 2011 (Aker Solutions, Oslo).
31. Johannes Jäschke, [Invariants for optimal operation of process systems](#), June 2011 (postdoc, NTNU, Trondheim).
32. Magnus Glosli Jacobsen, [Identifying active constrain regions for optimal operation of process plants](#), Nov. 2011 (ABB, Oslo).
33. Mehdi Panahi, [Plantwide control for economically optimal operation of chemical plants - Application to GTL plants and CO2 capturing processes](#), Dec. 2011 (Aker Solutions, Oslo).
34. Ramprasad Yelchuru, [Quantitative methods for controlled variable selection](#), June 2012 (SINTEF, Trondheim; 2013: ABB, Oslo).
35. Deeptanshu Dwivedi, [Control and operation of dividing-wall columns with vapor split manipulation](#), Jan. 2013 (ABB, Oslo).
36. Esmail Jahanshahi [Control solutions for multiphase flow: Linear and nonlinear approaches to anti-slug control](#), Oct. 2013 (Siemens, Trondheim).
37. Maryam Ghadrhan [Optimal operation of Kaibel columns](#), Oct. 2014 (Statoil, Stavanger).

Co-supervisor/Host for:

1. Bjørn Glemmestad, [Optimal operation of integrated processes. Study on heat recovery systems](#), Telemark Institute of Technology, Dec. 1997 (Supervisor: Truls Gundersen) (Borealis, Porsgrunn)
2. Michela Mulas, [Modelling and Control of Activated Sludge Processes](#), University of Cagliari (Italy), Jan. 2006 (Supervisor: Roberto Baratti) (Univ. Helsinki)
3. Veerayut Lersbamrungsuk, [Development of control structure design and structural controllability for heat exchanger networks](#), Kasertart University (Thailand), Jan. 2008 (Supervisor: Thongchai Srinophakun)

4. Junping Cai, *Control of Refrigeration Systems for Trade-off between Energy Consumption and Food Quality Loss*, Aalborg University (Denmark), Aug. 2008 (Supervisor: Jakob Stoustrup) (Danfos, Denmark)
5. M. Nabil, *Optimal selection of sensors and controller parameters for economic optimization of process plants*, IIT Madras, India (Supervisor: Sridharakumar Narasimha), Sep. 2014.

Present Dr.Ing. (Ph.D.) students

1. **Håkon Dahl-Olsen** (Siv.ing., NTNU, 2006), *Optimal operation of chemical processes*
2. **Vladimoros L. Minasidis** (MS Thessaloniki, Greece), *Optimal steady-state operation*
3. **Vinicius de Oliveira** (Brazil) *Optimal dynamic operation*
4. **Chriss Grimholt** (MS NTNU) *Optimal operation of processing plants*
5. **Adriana Reyes Lua** (MS NTNU, 2014) *Optimal operation of cooling cycles*
6. **Julian Straus** (MS ETH, 2013) *Optimal operation of ammonia plants*

Sigurd Skogestad 2015-01-19