

Programme and Abstracts book

The 54th Annual Meeting of SATS
and 25th of SCANSECT
Bergen, Norway – August 25-27 2005



SCANDINAVIAN ASSOCIATION
FOR THORACIC SURGERY



SCANDINAVIAN ASSOCIATION FOR
EXTRA-CORPOREAL TECHNOLOGY



Welcome delegates

It is with great pleasure and honour we invite you to Bergen to attend the 54th Annual meeting of SATS and the 25th meeting of SCANSECT.

In addition to an interesting scientific programme, there will be opportunities to enjoy cultural and scenic pearls of this medieval city.

The month of August is a beautiful time of the year, and we promise you an unforgettable social program; a reception the day of arrival, fjord tour with the three-masted barque Statsraad Lehmkuhl from 1914 and lunch at Mount Fløyen.

Mount Fløyen is one of the seven mountains surrounding the city. You will be taken there by the Fløybanen funicular!

The banquet will take place in a magnificent royal hall from the 13th century. There will be optional pre or post congress tours, and organised tours for accompanying persons, in and around the city.



**Else Loholdt Nygreen,
President SCANSECT**



**Leidulf Segadal,
President SATS**



Greetings from the Mayor of Bergen

It gives me great pleasure, as Mayor of Bergen, to wish The 54th Annual Meeting of SATS and the 25th of SCANSECT a heartily welcome to our city!

Bergen, "the city between seven mountains", was founded by Olav Kyrre in 1070. With its 240.000 inhabitants Bergen is Norway's second largest city.

Bergen occupies a favourable position as a communication node, and its nickname, "the Fjord Capital" provides an indication of its significance as the gateway to the fjord districts. Its university and colleges, and its sporting and cultural institutions, contribute to the status of Bergen as the cultural heart of western Norway, and a range of attractions and events make the city a popular tourist destination.

We invite all of our guests to participate in all of this, so that your stay in Bergen will provide you with new impulses and a host of good memories.

In my capacity as Mayor, I would like to wish Haukeland University Hospital the best of luck with the event, and express my pleasure that Bergen can host this meeting.



Herman Friele
Mayor of Bergen

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Congress committees

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Anders Jeppsson

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Knut S. Andersen

Hogne Engedal

Peder M. Kvitting

Jon Solheim

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Design/layout: artFilm Media www.artfilm.no Trykk: Grafisk Team

General information

Location & Dates

Thursday 25th to Saturday 27th of August 2005.

Congress Hotel

The conference takes place at the Radisson SAS Hotel Norge. The exhibition is also arranged here via a visit to the Main Hall.

Language

The official conference language is English.

No translation service is provided.

Bank offices

The banks are open Monday to Friday from 08.30 – 15.00.

Currency

100 NOK = 12 Euro

Badges

On registration at Hotel Norge, all delegates, sponsors and accompanying persons will receive a namebadge together with the congress papers.

Clothing & footwear

Some may be tempted to walk down from Mount Fløyen (30 min.). In that case we recommend appropriate shoes. The dinner onboard the sailing ship Statsraad Lehmkühl will be very informal, and partly outdoors while the boat is under sail. Please ensure that you have sufficient clothing for the prevailing weather conditions, with the necessary outer garments.





The 54th Annual Meeting of SATS
and 25th of SCANSECT
– Programme

Programme

Thursday August 25th



- 12.00-13.00 Lunch Symposium by Edwards Lifesciences** (Alvøen)
- 12.00-13.00 Lunch Symposium by Sorin Group** (Maartmannshaven)
- 13.00-13.20 Opening Ceremony** (Main Hall)
- 13.20-14.30 Hypothermia** (Main Hall)
Chairs: Olav Sellevold and Ketil Grong
- 11 The Polar adventure**
Rune Gjeldnes, Oslo
- 12 Accidental hypothermia. Clinical and Experimental Data**
Marit Farstad, Bergen
- 14.30-15.10 13 Coronary Surgery: Off pump or dedicated HLM** (Main Hall)
Daniel A. Steinbrüchel, Copenhagen
Chairs: Stein Erik Rynning and Karl Engström
- 15.10-15.40 Coffee/Tea – Visit Exhibition**
- 15.40-16.45 Free Papers SATS & SCANSECT** (Main Hall)
Chairs: Karl Engström and Stein Erik Rynning
- O1 A simple score to assess mortality risk in patients waiting for coronary artery bypass grafting**
Rexius H, Brandrup-Wognsen G, Nilsson J, Odén A, Jeppsson A., Gothenburg
- O2 Evaluation of myocardial metabolism with microdialysis after protection with cold blood – or crystalloid cardioplegia. A porcine model**
Runge M, Hughes P, Gøtze JP, Petersen RH, Steinbrüchel DA, Copenhagen
- O3 Cost effectiveness of local collagen-gentamicin as prophylaxis for sternal wound infections**
Friberg Ö, Dahlin L-G, Levin, L-Å, Granfeldt H, Källman J, Svedjeholm R, Örebro and Linköping
- O4 The impact of vacuum-assisted closure on long-term survival after poststernotomy mediastinitis**
Sjögren J, Nilsson J, Gustafsson R, Malmsjö M, Ingemansson R., Lund
- O5 Risk analysis in patients with heart failure treated with extracorporeal membrane oxygenation (ECMO)**
Risnes I, Wagner K, Geiran, OR, Seem E, Dragsund M, Svennevig JL., Oslo
- 19.00-20.00 Reception hosted by Bergen Municipality at Bergen Art Museum**

Programme

Friday August 26th



- 07.30-08.15** **Breakfast Symposium by Edwards Lifesciences** (Alvøen)
- 08.30-10.30** **Valvular surgery** (Main Hall)
Chairs: Leidulf Segadal and Timo Savunen
- 14 Principles of Mitral Valve Reconstruction**
Francis Wells, Cambridge
- 15 Tissue valves for the left side of the heart**
John Pepper, London
- 10.00-10.30** **Coffee/Tea – Visit Exhibition**
- 10.30-12.00** **Valvular surgery, continued**
Chairs: Leidulf Segadal and Timo Savunen
- 16 Tissue valves versus mechanical valves**
Marko Turina, Zürich
- 17 Choice of valve and implantation techniques in the aortic and mitral ostium**
Friedrich W. Mohr, Leipzig
- 12.00-13.30** **Lunch Symposium by Medtronic** (Alvøen)
- 12.00-13.30** **Lunch Symposium by St. Jude** (Maartmannshaven)
- Nurse Session** Chair: Kate-Elin Hopland Solvi and Elin M. Jersin (Meetingroom 4)
- 10.30-10.50** **O25 Wound infection following saphenous vein harvesting.**
(P25) Procedure and surgeon related differences: a prospective randomized study
Maryann Nasset Stenvik
- 10.50-11.20** **I15 Patient reported outcomes after 3, 6 and 12 months after coronary artery bypass surgery**
Lars Mathisen, Oslo
-  **13.30-15.30** **Free Papers.** (Main Hall)
Chairs: Odd Geiran and Knut S. Andersen
- O6 Bicuspid Aortic Valve Repair and root management: Intermediate term results**
Noirhomme P, Glineur D, Poncelet A, Verhelst R, Astarci P, Rubay J, Lacroix V, El Khoury G., Brussels
- O7 Risk factors for postoperative heart failure in patients operated for aortic stenosis**
Vänky E, Håkanson E, Tamás E, Svedjeholm R., Linköping
- O8 Feasibility and durability of mitral valve repair in acute endocarditis: a ten-year single center experience**
Noirhomme P, de Kerchove L, Glineur D, Poncelet A, Verhelst R, Rubay J, D'Udekem D'Acoz Y, Astarci P, Zech F, Vanoverschelde J-L, El Khoury G., Brussels
- O9 No-touch saphenous veingraft for coronary artery bypass grafting (CABG) harvested with surrounding tissue provides a high graft patency rate**
Souza D, Dashwood MR, Arbeus M, Loesch A, Filbey D., Örebro and London
- O10 Arterial coronary grafts: the effect of one vs. multiple on long term survival**
Johnson WD, Kayser K, Semb B., Brookfield, USA and Stockholm
- O11 Body mass index and outcome after coronary artery bypass grafting.**
Perrotta S, Nilsson F, Brandrup-Wognsen G, Jeppsson A., Gothenburg and Pavia

O12 Does clopidogrel influence on mid-term patency of the coronary grafts done with off-pump CABG?

Ibrahim KS, Tjomslund O, Halvorsen DL, Wahba A, Karevold A, Wiseth R, Haaverstad R., Trondheim

O13 Coronary bypass graft patency cannot be determined by multidetector spiral computed tomography

Bartnes K, Sildnes T, Iqbal A, Dahl-Eriksen Ø, Trovik TS, Avenarius D, Mannsverk JT, Sørli DG, Myrmet T, Tromsø



13.30-14.10

Mini Systems (Alvøen)

Chairs: Micael Appleblad and Pia Sprogøe

I8 Multifunctional Modes of Application for a Minimised ECC-System

Maik Foltan, Regensburg

14.10-14.40

Free Papers (Alvøen)

O14 A plasma resistant oxygenator and a centrifugal pump for long term pediatric extracorporeal membrane oxygenation

Thiara APS, Kristiansen F, Karlsen H., Oslo

O15 Successful rewarming of a shipwrecked sailor by the use of an ECMO-system and continuous infusion of hypertonic saline

Nygreen E, Bergen

14.40-15.20

I9 CE-Marking and Perfusion Safety (Alvøen)

Carole Hamilton, Tübingen

Chairs: Else Nygreen and Christer Ericson

15.30-16.00

Coffee/ Tea & Visit Exhibition

Nurse Session

13.30-15.00

Complications post surgery - how to care (Meetingroom 4)

Chair: Britt Mørner and Grete Henriksen

I10 Complications post CABG - a single case study

Siv Osdal, Volda

I11 VAC-therapy - A new dimension in wound healing

Carolyn Jane Mikkelsen, Røyken

I12 First experiences on VAC-therapy in Sweden

Johan Sjøgren, Lund

16.00-17.00

Pre-per-post: how can nurses contribute?

Chair: Tone M. Norekvål and Vigdis Takvam

I13 Health-related quality of life three years after coronary artery bypass grafting (CABG)

KH Gjeilo, A Wahba, P Klepstad, S Lydersen, R Stenseth

I14 Surgical assistant: What it is and what it is not

Maryann Nasset Stenvik, Trondheim

16.00-17.00

General Assembly SATS (Main Hall)



16.00-17.00

General Assembly SCANSECT (Alvøen)



18.00-21.00

Fjord Tour onboard Statsraad Lehmkühl sponsored by St. Jude

Programme

Saturday August 27th



08.00-09.30

Free Papers (Main Hall)

Hall & Lillehei Awards Session

Chairs: Michael J. Hasenkam and Hogne Engedal

OP16 Hypertension impairs post-operative regression of left ventricular hypertrophy and improvement in exercise capacity in patients operated for aortic valve stenosis

Cramariuc D, Gerds E., Bergen

OP17 Pre- and postoperative cerebral lesions as predictors of health status after coronary artery bypass surgery

Mathisen L, Andersen MH, Hol PK, Tennøe B, Lund C, Russell D, Lundblad R, Halvorsen S, Wahl AK, Hanestad BR, Fosse E., Oslo

OP18 On-X vs Carbomedics bileaflet prosthesis in aortic valve disease: A prospective, randomized study

Andersen K, Fiane AE, Offstad J, Ihlen H, Svennevig JL., Oslo

OP19 Cardiomyocyte apoptosis after antegrade vs. retrograde cardioplegia

Vähäsilta T, Saraste A, Kytö V, Malmberg M, Kentala E, Savunen T., Turku

OP20 Cerebral ischemia during low-pressure cardiopulmonary bypass in piglets

Haugen O, Farstad M, Kvalheim VL, Rynning SE, Hammersborg S, Mongstad A, Husby P, Bergen

OP21 Hemodynamic effects of cardiotomy suction blood

Westerberg M, Gäbel J, Bengtsson A, Sellgren J, Eidem O, Jeppsson A., Gothenburg

09.30-10.00

Coffee/ Tea & Visit Exhibition



10.00-11.30

Free Papers. Short Presentations

Chairs: Anders Jeppsson and Truls Myrnel

OP1 Induction of tolerance to cardiac allografts

Malm H, Oderup C, Ekberg H, Qi Z, Veress B, Ivars F, Corbascio M., Lund and Bergen

OP2 Four years clinical experience of the Ross procedure: Evaluation of hemodynamic performance

Karaskov AM, Gorbatykh YN, Sinelnikov YS, Grekhov EV, Latypov AK., Novosibirsk

OP3 26 years of mitral valve surgery in Northern Norway – trends

Roaldsen M, Sørli DG, Dahl PE, Busund R, Myrnel T., Tromsø

OP4 Mitral valve reoperations through a right thoracotomy with beating heart technique

Andersen KS, Segadal L., Bergen

OP5 Myocardial oxygen tension during surgical revascularization. A clinical comparison between blood cardioplegia and crystalloid cardioplegia

Bjerrum JT, Perko MJ, Beck B., Copenhagen

OP6 Does autotransfusion with cell saver reduce the frequency of allogenic blood transfusions in off-pump coronary artery bypass surgery?

Damgård S, Steinbrüchel D., Copenhagen

OP7 Antithrombotic- and anticoagulation regimens in OPCAB surgery. A Nordic survey

Hansen K, Hughes P, Steinbrüchel DA., Copenhagen

OP8 Comparison of number of microembolic signals (MES) in the middle cerebral arteries (MCA) as well as number and volume of microbubbles (MBB) in tubings of Jostra-MECC-System versus conventional extracorporeal circulation (cECC)

Perthel M, Kseibi S, Sagebiel F, Alken A, Laas J., Bad Bevensen

OP9 Mechanical restitution curves – a potential in vivo, non-invasive, load independent index for assessment of left ventricular contractility

Kjørstad KE, Nordhaug DO, Korvald C, Muller S, Steensrud T, Myrmet T, Tromsø.

OP10 Antegrade selective cerebral perfusion (ASCP) made simpler

Cha S-O, Lundblad O, Friberg Ö, Ahlsson A, Arbeus M, Souza D., Örebro

OP11 Cardiac surgery in octogenarians

Steinbrüchel DA, Skov Olsen P, Copenhagen

OP12 Thoracoscopic microwave ablation for paroxysmal atrial fibrillation. Turku initial experience

Koistinen J, Viikki V, Valtonen M, Savunen T, Kuttilla K, Airaksinen J, Savola J., Turku

OP13 Management of esophagus fistula and ruptures with self-expanding stents

Parvaiz J, Sparup J, Steinbrüchel D., Copenhagen



10.00-10.40

Tromboelastographi (Alvøen)

Chairs: Else Nygreen and Harald Magne Karlsen

116 Tromboelastographi for Cardiac Vascular Surgery

Egil Steien, Bergen

10.40-11.30

Free Papers (Alvøen)

O22 A comparison of arterial carbondioxide partial pressure (PaCO₂) and oxygenator gas escape carbondioxide partial pressure (PexCO₂)

Nielsen TS., Aalborg

O23 Effects of different mean arterial pressures and machine flow rates on fluid extravasation during normothermic CPB

Mongstad A, Haugen O, Farstad M, Kvalheim VL, Rynning SE, Husby P., Bergen

O24 Lactate liberation during cardiopulmonary bypass: Cause and consequence?

Svenmarker S, Häggmark S, Östman M., Umeå



11.45-12.45

117 “Many look but few see” Cardiac anatomy through the eyes of Leonardo da Vinci

(Main Hall) Francis Wells, Cambridge

Chair: Leidulf Segadal, Bergen

13.30-14.30

Lunch, Mount Fløyen

Continues ...

Scientific Programme

Saturday August 27th

15.00-17.00 Poster Session (Alvøen)

- P1** Friberg Ö. Local collagen-gentamicin as prophylaxis for sternal wound
- P2** Sjögren J. Long-term outcome of the Mitroflow pericardial bioprosthesis ..
- P3** Ibrahim KS. Enhanced intraoperative assessment of aortic atheroma
- P4** Vánky F. Myocardial metabolism and energetics before and after valve ...
- P5** Svedjeholm R . Coronary surgery in patients with poor left ventricular ..
- P6** Nyboe C. Turbulent stress measurements downstream of three...
- P7** Svenarud P. Carbon dioxide inhibits the growth rate of Staphylococcus..
- P8** Pätälä T. Sofa score assessment to morbidity and mortality after ...
- P9** Noirhomme P. Surgical management of infective acute aortic endocarditis....
- P10** Hedberg M. Cerebrovascular accidents after cardiac surgery:An analysis..
- P11** Kvitting JPE. Virtual markers for noninvasive assessment of myocardial ...
- P12** Haaverstad R. The Medtronic Advantage aortic valve prosthesis:....
- P13** Rees W. Calafiore cardioplegia during CABG operations in patients with ...
- P14** Boivie P. Aortic plaque distribution in relation to cross clamp and cannulation
- P15** Pätälä T. Myoblast transplantation in a porcine model of ischaemia.....
- P16** Laas J. Hemodynamic performance of the Medtronic Hall Easy Fit...
- P17** Mycyk TR. The physiologic management of coronary ostial stenosis....
- P18** Warnecke R. Clinical Outcome with the Medtronic Hall Easy Fit Heart Valve...
- P19** Dedichen HH. Video-assisted mediastinoscopy: A safe and effective....
- P20** Mennander A. Plasma C-reactive protein related risk for severe ...
- P21** Arbeus M. Off-pump coronary artery bypass surgery with....
- P22** Davidsen ES. 15 year follow-up of stented Biocor aortic valve prosthesis
- P23** Konge L. Endoscopic vein harvesting
- P24** Damgård S. Coronary artery bypass grafting with arterial revas....
- P25** Stenvik M. Wound infection following saphenous vein harvesting

19.00 Banquet in Håkonshallen

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Awards

The Ingegerd and Viking Olov Björk Scholarship for Thoracic and Cardiovascular Research

Application for the Ingegerd and Viking Olov Björk Scholarship for Thoracic and Cardiovascular

Research are invited from members of the Scandinavian Association for Thoracic Surgery.

The scholarship, totalling NOK 200.000 is available to applicants who have acquired a medical doctorate or equivalent qualification.

C.W. Lillehei Young Investigators Award

St. Jude Medical Inc. has designated the "C. Walton Lillehei, PhD., M.D. Young Investigators Award" in recognition of implanting the St. Jude Medical mechanical heart valve. The presenters price entail an award of US \$ 5000.

The Karl Victor Hall Award

The award is to be given in the recognition of the outstanding contributions of Professor Karl Victor Hall in the fields of cardiovascular thoracic surgery, including his pioneering development work on the Medtronic Hall heart valve. Candidates may be members or non-members of SATS, but the author should have Nordic nationality or residency in a Nordic country.

The work should be unpublished and not previously presented at a major international scientific meeting.

The amount awarded is US \$ 5000. The board of SATS Scientific Committee will decide upon the candidate for the award.

Maquet Cardiopulmonary Best Perfusion Paper Award

Best Perfusionist Paper Award' Maquet donates this award, given to the best perfusionist paper presented at the yearly SCANSECT meeting, as decided by SCANSECT scientific committee.

The award is 1000 Euros. Please refer to the homepage for further details on Awards.

Best Perfusion School Graduate Paper Award

EUR 500. An award to the perfusionist presenting the best graduate paper.

Sorin Group Award; First time perfusionist Presenter

NOK 3000. An award to the best perfusionist presenting a paper for the first time.

This award is donated from Sorin Group Norway.

Social programme

Reception by the Municipality of Bergen – Thursday August 25th

The Municipality of Bergen invites all delegates, sponsors and accompanying persons to a reception at the Bergen Art Museum, Lysverket, for a light meal and a glass of wine.

Accompanying Persons' Programme

Enjoy a sightseeing in the center of Bergen and avisit to the composer Edvard Grieg's home Trolldhaugen. Lunch included.



Fjord Tour with Statsraad Lehmkuhl – Friday August 26th

This Fjord Tour on board the three-masted barque Statsraad Lehmkuhl from 1914, gives you the opportunity to discover Bergen from the seaside. Enjoy the trip and a taste of seafood together with new and old acquaintances.

Accompanying Persons' Programme

Wandering on Bryggen – the old part of Bergen. Both sightseeings start at 1000hrs. Meeting point Hotel Norge.



Lunch at Mount Fløyen – Saturday August 27th

Take the funicular Fløibanen to the top of Mount Fløyen (320 m a.s.l.). At Mount Fløyen you will have the most magnificent views of Bergen and the suburbs!



Banquet Dinner at Håkonshallen – Saturday August 27th

Håkonshallen was built during the reign of King Håkon Håkonsson between 1247 and 1261. It was the largest and most imposing building of the royal residency in the 13th century when Bergen was the political centre of Norway. Today Håkonshallen is reserved for very special occasions only. Enjoy the banquet dinner in these historic surroundings.



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