PROGRAMME NCFM/NAFT conference Stockholm, June 10-13, 2015

----------- WEDNESDAY, JUNE 10 -----------

13:00-15:00  **Workshop 1: The challenge of new psychoactive substances.**
Paul Dargan, Guy's and St Thomas' NHS Foundation Trust, London, UK
Axel Grønkjær, SKAT, Customs Drug Enforcement, Denmark

13:00-15:00  **Workshop 2: Time of death estimation.**
Burkhard Madea, Institut für Rechtsmedizin, Bonn, Germany
Stefan Potente, Institut für Rechtsmedizin, Frankfurt, Germany

**COFFEE BREAK**

15:30-17:30  **Workshop 3: Reporting evidence.**
Anders Nordgaard, Swedish National Crime Lab.
Johanna Loisel, Forensic Medicine, Umeå, Sweden

15:30-17:30  **Workshop 4: Molecular autopsy.**
Antti Sajantila, Forensic Medicine, University of Helsinki, Finland
Siri Opdal Hauge, Institute of Public Health, Oslo, Norway

15:30-17:30  **Workshop 5: Sample preparation strategies.**
Brian Schou Rasmussen, Retsmedicinsk Institut, Denmark
Anja Valen, Folkehelseinstituttet, Norway

15:30-17:30  **Workshop 6: Screening and confirmation strategies.**
Martin Josefsson, National Board of Forensic Medicine, Linköping, Sweden
Anna Pelander, Department of Forensic Medicine, University of Helsinki, Finland

15:30-17:30  **Workshop 7: Alternative matrices in forensic toxicology.**
Robert Kronstrand, National Board of Forensic Medicine, Linköping, Sweden,
Elisabeth Oiestad Leere, Institute of Public Health, Division of Forensic Sciences, Norway

18:30-20:30  Get together Welcome reception
THURSDAY, JUNE 11

08:40-08:45 Welcome greetings
08:45-09:00 Swedish Minister for Justice and Migration Morgan Johansson
09:00-09:15 Introductory notes
09:15-09:45 Music: Linda Lampenius, violin & Carina E. Nilsson, piano
09:45-10:00 COFFEE AND POSTERS

GENERAL SESSION

10:30-10:45 Antipsychotics - Postmortem fatal and non-fatal reference concentrations
Söderberg C*, Wernvik E, Jönsson AK, Spigset O, Reis M, Druid H
10:45-11:00 Modus Operandi in Serial and Recidivistic Homicide Offenders – Homicide Injury Scale (HIS) and other Factors
Sturup J
11:00-11:15 Neuropathology of drug abuse and its impact on forensic casework and research
Böttner A
11:15-11:30 Behavioral studies of the new hallucinogenic phenylethylamine 25I-NBOMe in mice
Andersson M*, Karlsson M, Kronstrand R, Kugelberg FC
11:30-11:45 A fatal intoxication with the superpotent 5-HT2A receptor agonist 25B-NBOMe
Thelander G*, Jonsson U, Kronstrand R
11:45-12:00 Intoxications associated with the novel dissociative drug 3-MeO-PCP
12:00-13:00 LUNCH

POSTMORTEM BIOCHEMISTRY

13:00-13:45 Invited lecture: Review of postmortem biochemistry
Cristian Palmière, Lausanne, Switzerland
13:45-14:00 Importance of postmortem biochemistry in cause of death investigation
Walta AM
14:00-14:15 Postmortem analysis of sodium imbalances
Zög B*, Berg S, Alkass K, Druid H
14:15-14:30 Factors Associated with deaths due to hyperglycemia in Sweden
Walz L*, Jönsson AK, Zög B, Druid H
14:30-14:45 Lactate levels in postmortem samples and interpretation of results
Keltanen T
14:45-15:00 Time of Death (TOD) estimation on scene of crime: quality control of classical- temperature- and biochemical methods
Rognnum TO*, Dahlberg PS, Musse A, Opdal SH, Osberg S, Holmen S, Stray-Pedersen A
15:00-15:30 COFFEE AND POSTERS
PARALLEL SESSION 1A
GENERAL SESSION

15:30-15:45 Mental Disorders in Child-homicide Offenders from 1992 to 2012: A Population-based Study from Sweden
Hedlund J*, Kristiansson M, Masterman T, Sturup J

15:45-16:00 Species identification by species-specific DNA analysis
Dell’Amico B*, Tillnäs A

16:00-16:15 Previous Medical Care for Injuries In Swedish Child Homicide Victims – A Case-Control Study on 74 Cases and 370 Controls
Bäckström B*, Jinghede A, Hedlund J, Sturup J

16:15-16:30 Genetic investigation of SUDI victims using next-generation sequencing of 100 genes associated with cardiac diseases

PARALLEL SESSION 1B
FORENSIC TOXICOLOGY

15:30-15:45 Comprehensive screening for synthetic cannabinoids in whole blood using UHPLC-Q-TOF
Roman M*, Jaque C, Kronstrand R

15:45-16:00 Influence of test tube additives in whole blood drug analysis
Nilsson G*, Ringquist N, Kronstrand R

16:00-16:15 Using forensic toxicology registers in combination with drug dispensing databases to identify prescription drug abuse: the example of tramadol
Jönsson AK*, Tjäderborn M, Hägg S, Ahlner J

17:00-18:00 Vendor workshops

18:00-19:30 Bring your own slides session
--- FRIDAY, JUNE 12 ---

PARALLEL SESSION 2A
FORENSIC PSYCHIATRY

8:30-10:00 Symposium on Forensic Aspects of Child Homicides
Forensic medicine and Child Homicides – Wahlsten P
Crime Scene Investigations in Child Homicides – Jøgshed A
Forensic Psychiatric Examinations of Child Homicide Offenders – Kristiansson M

10:00-10:30 COFFEE AND POSTERS

PARALLEL SESSION 2B
FORENSIC TOXICOLOGY

8:30-8:45 Evaluation of the hip-flask defence by use of ethyl glucuronide in blood
Høiseth G*, Berg-Hansen GO, Marland J

8:45-9:00 Fatal methanol and ethylene glycol poisonings: threshold concentrations of main metabolites in post mortem blood
Viinamäki J*, Ojanperä I

9:00-9:15 Exploring Supercritical fluid chromatography for chiral separation of drugs
Hegstad S*, Wiklund T, Havnen H, Frost J

9:15-9:30 Targeted screening and confirmation in urine of 32 commonly abused drugs and narcotics in Iceland using UHPLC coupled with MSMS
Albertsdóttir AD*, Hermansson S, Sölbergsdóttir E

9:30-9:45 Use of oral fluid for analysis of new psychoactive substances
Oiestad EL*, Nordfjærn T, Edland-Gryt M, Breteville-Jensen AL, Hovda KE, Persett PS, Vallersnes OM, Bogstrand ST, Gjerde H

9:45-10:00 The synthesis of a number of metabolites from the synthetic cannabinoids JWH-018, THJ-018, AKB-48, 5F-AMB-48 identified in human urine samples

10:00-10:30 COFFEE AND POSTERS

PARALLEL SESSION 3A
FORENSIC HISTOPATHOLOGY

10:30-11:15 Invited lecture: Review of forensic histopathology
Reinhard Dettmeyer, Giessen, Germany

11:15-11:30 Various applications of quantitative autofluorescence microscopy in forensic histopathology:
Estimating myocardial infarction age and post mortem interval
Jensen T*, Jacobsen C, Rossing HH, Vainer B

11:30-11:45 Quantification of leucocytes, T-lymphocytes and macrophages in endomyocardial tissue from 56 normal human hearts in the first year of life at autopsy
Grasmeyer S, Oswald S, Madea B*

11:45-12:00 Autofluorescence based digital quantification of myocardial tissue components in unstained histological slides
Jensen T*, Jacobsen C, Rossing HH, Vainer B
10:00-10:30 COFFEE AND POSTERS

PARALLEL SESSION 3B
TOXICOLOGY

10:30-10:45 The decrease in fatal poisonings in Finland
Kriikku P*, Ojanperä I

10:45-11:00 www.farmakologiportalen.no: a common national database for pharmacological laboratory services
Westin A*, Bjänes T

11:00-11:15 Patterns of drug abuse between drug users with regular and irregular attendance for treatment
Sundström M*, Pelander A, Simojoki K, Ojanperä I

11:15-11:30 Heroin kinetics in blood and vitreous humor in a living pig model
Huseth G*, Götás A, Arnestad M, Halvorsen S, Bachs L

11:30-11:45 Detection times of carboxylic acid metabolites of the synthetic cannabinoids JWH-018 and JWH-073 in human urine
Hegstad S, Westin A*, Spigset O

12:00-13:00 LUNCH

PARALLEL SESSION 4A
TOXICOLOGY

13:30-14:00 Invited lecture: Reflections and Reminiscences About the History of Forensic Toxicology in Sweden
A.W. Jones

13:30-14:00 Invited lecture: Nordic meetings in forensic toxicology the past 40 years.
Jakob Kristinsson

14:00-16:15 NAFT general assembly meeting

PARALLEL SESSION 4B
GENERAL SESSION

13:00-13:15 Why are there so few cases of accidental suffocation among Swedish SUDI cases?
Mölborge P*, Wennegren G, Almqvist P, Alm B

13:15-13:30 Civilian war injuries and casualties – results from a medical fact finding mission to Gaza 2014
Hougen HP*, Bachmann J, Baldwin-Ragaven L, Kelly K, Leaning J, Özlüpci Ö, Reynolds L, Vacas A

13:30-13:45 Suicide by the use of Firearms in Sweden 2001 to 2013: Demographics, Depression and Firearms Licenses
Wingren CJ*, Wadensten E, Ottosson A

13:45-14:00 A Prospective In-depth Study of Real-World Car Collisions Involving youth and young adults
Breen JM*, Naess PA, Hansen TB, Gaarder C, Stray-Pedersen A

14:00-14:15 Bicyclists killed in traffic in Southeast Norway 2000-2014
Stål KO*, Breen JM, Stray-Pedersen A

14:15-14:30 Shaken Baby Syndrome/Abusive Head trauma mortality in Sweden
Andersson J*, Thiblin I

14:30-14:45 'Achtung, Fahrkartenautomatenbombe!' – a case of lethal trauma in a crime gone wrong
Potente S*, Held H, Verhoff MA
14:45-15:30  COFFEE AND POSTERS

PARALLEL SESSION 4B, CONTINUED
GENERAL SESSION

15:30-15:45  Postmortem heart weight Modeled Using Piecewise Linear Regression in 27,645 Medicolegal Autopsy Cases
Wingren CJ*, Ottosson A

15:45-16:00  Bloodstain pattern analysis by infrared photography
Sterzik V*, Bohnert M

16:00-16:15  Coverage of Medicolegal Autopsies in Non-natural Deaths in Sweden 1997 to 2012
Wingren CJ*, Ottosson A

16:15-16:45  The SURVIVE study Experiences from the Danish National autopsy-based study
Banner J*, Thomsen J, Boel LWT, Ottesen GL, Lynnerup N

19:00-23:00  BANQUET
**GENERAL SESSION**

8:30-8:45  *Death by self-inflicted asphyxia with helium – First case reports from Norway*  
Frost J

8:45-9:00  *Autopsy in unresolved deaths and accuracy of mortality statistics; analysis of cause of death investigation in Finland and in Denmark*  
Ylijoki-Söremlsen S*, Lalu K, Bøggild H, Sajanitä A, Boel LWT

9:00-9:15  *Internet drug related deaths in Sweden, 2007 – 2014*  
Pettersson G*, Thelander G

9:15-9:30  *Implementation of CT imaging in post mortem forensic examination*  
Osberg S*, Martinsen ACT, Rognum TO

9:30-9:45  Pathomorphological conditions of coronary system applying post mortem CT density coded resininjected method in forensic practice  
Toro K*, Nemeskeri A, Molnar A, Dudas I, Bartykowzki A, Matlakovics B

9:45-10:00  *Person-specific 3D animated models interacting with the virtually reconstructed crime scene*  
Villa C*, Larsen P, Lynnerup N

10:00-10:15 STRETCH YOUR LEGS

**GENERAL SESSION**

10:15-10:30  *The goldfish in the mixer: Concerning rationality in criminal proceedings?*  
Michard JF

10:30-10:45  *Death Scene Investigation in sudden unexpected deaths in infants and small children in Norway*  
Bylestad LL, Vege ., Stray-Pedersen A, Osberg S, Olufsen C, Rognum TO*

10:45-11:00  *External causes of sudden unexpected death in infancy an early childhood in Southeast Norway*  
Osberg S*, Stray-Pedersen A, Vege ., Olufsen C, Bylestad L, Rognum TO

11:00-11:15  *Postmortem imaging – a systematic review*  
Eriksson A*, Gustafsson T, Hultcrantz M, H.istad M, Jacobson S, Persson A

11:15-12:15 SWEDISH FIKA TIME AND FAREWELL

**POSTER PRESENTATIONS**

1. Sexual child abuse – Histology of hymenal tissue, presenter: Lise Frost
2. The clinical forensic examination in the newly established Child Protection Centers in the northwestern parts of Denmark, presenter: Marlene Beyer Eg
3. Sudden cardiac death due to polycystic kidney disease? presenter: Maiken Kudahl Larsen
4. Sudden infant death - no renal expression of heat shock proteins (HSP) presenter: Burkhard Madea
5. Strangulation suicide at the wheel, presenter: Burkhard Madea
6. Helicopter induced Propeller injuries, Burkhard Madea
7. Concentration changes of potassium, hypoxanthine and xanthine in vitreous humour, presenter: Delia Lepik
8. Distinction between postmortem changes, disease associated findings and forensic evidence presenter: Ulrich Hammer
9. Has previous abuse of flunitrazepam been replaced by clonazepam? presenter: Gudrun Hoiseth
10. Quantification of 16 QT-prolonging Drugs and Metabolites in Postmortem Blood and Postmortem Cardiac Tissue Using UPLC-MS/MS, presenter: Christian Reuss Mikkelson
11. Suicides with long guns - a 25-year history of circumstances and autopsy findings, presenter: Anne Port
12. Forensic toxicological investigations of fatal poisonings in Iceland 1973-2012, presenter: Svava
13. Mathematical approach to quantify osteological age-related changes on 3D models of pelvis joints, presenter: Chiara Villa
14. Post Mortem CT- Angiography (PMCTA), presenter: Lene Warner Thorup Boel
15. Case report – cooperation of different experts, presenter: Heldi Kase
16. Biological fluids in forensic medicine, presenter: Mailis Tönisson
17. Accidental death by voluntary nitrous oxide inhalation – effects on subjective dyspnea by nitrous oxide, presenter: Björn Bäckström
18. Studies on opioid hybrids to reduce opioid toxicity deaths presenter: Henrik Druid
19. Fatal Brown Bear Attacks, presenter: Torfinn Gustafsson
20. Intervention Related Deaths, presenter: Torfinn Gustafsson
22. Next generation sequencing of sudden cardiac death genes in forensic sudden unexpected deaths, presenter: Henrik Green
23. Synthetic cannabinoids in fatal intoxications, presenter: Anders Rietz
24. Loose bodies in body cavities, presenter: Anders Rietz
25. A unique fatal moose attack mimicking homicide, presenter: Pétur Guomann Guomannsson
27. Medico-legal evaluation of environmental-related death cases, presenter: Klara Törö

EXHIBITORS

Agilent Technologies
Bergman Labora AB
Chiron
Hamilton Robotics
MSCi ApS
Rationell IT
Thermo Fisher Scientific
Triolab AB
Waters Sweden AB