

NSFT

Norsk Selskap for Farmakologi og Toksikologi

Årsberetning 2019 – seksjon for toksikologi

This is the Toxicology board's report on our activities during the period from 1 February 2019 to 25 January 2020. This annual report is submitted for approval at the annual meeting of the Section for Toxicology at NSFT winter meeting at the Radisson BLU Resort Beitostølen on 25 January 2020.

1. The composition of the board

The board members for the toxicology section in the year 2019 has been as follows:

Leder – Jason Matthews (2019-2021) – UiO, Oslo
Vibeke Ansteinsson, (2019-2021)- TKØ, Oslo,
Anita Solhaug, (2019-2021)- VI, Oslo,
Odd Andre Karlsen (2019-2021) – UiB, Bergen
Marit Nøst Hegseth (2019-2020)- UNN/UiT, Tromsø
Nina Landvik (2018-2020- ikke på valg) – Miljødirektoratet, Oslo
Pål Amdal Magnusson (2018-2020- ikke på valg)- Miljødirektoratet, Oslo
Dag Markus Eide (2019-2021) – FHI, Oslo

Varamedlemmer:

Solveig Føreland, varamedlem, (2019-2021)- UNN, Tromsø
Vidar Berg-varamedlem (2018-2020)- NMBU, Oslo

Valgkomiteen for 2019: Shan Zienolddiny and Hubert Dirven

2. The work of the board

The board had four meetings and many email communications during the year.

The board's work over the past year:

Jason Matthews participated in the Eurotox 2019 business meeting in Helsinki (September 2019).

Vintermøtet 2019

Pris for beste poster gikk til Silje Modahl Johanson (NMBU) Maternal exposure to a mixture of persistent organic pollutants have long-lasting effects on gut metabolite composition but not on colorectal cancer

Pris for beste frie foredrag gikk til: Karina Dale (UiB) Contaminant accumulation and biological responses in Atlantic cod (*Gadus morhua*) exposed to polycyclic aromatic hydrocarbons and perfluoroalkyl substances.

Alan R Boobis fra Imperial College London holdt Beito-forelesning om Science and society – nice to know or need to know?

Vårmøtet 2019

Dioksiner og dioksinlignende PCB i maten vi spiser: Hva er risikoen og helsemessige bekymringer?

Dioxins and dioxin-like PCBs in the food we eat: What are the risks and health concerns?

When: Tuesday 7th of May, 13:00-16:00

Where: Runde Auditorium R-105, Domus Medica tilbygg UiO

Agenda

13:00 Welcome – Jason Matthews (NSFT)

13:05 **Johan Øvrevik** – Folkehelseinstituttet – Aryl hydrokarbonresptor - nye roller for dioksinreseptoren i sykdomsutvikling

13:35 **Ole Jakob Nøstbakken**, Havforskningsinstituttet – Dioksin og dl-PCB i norsk sjømat

14:05 Coffee break

14:30 **Helle Knutsen**, Folkehelseinstituttet - Dioksiner og DL-PCB er fortsatt en helseisiko: presentasjon av EFSA's nye og syv ganger lavere TWI

15.15 **Aksel Bernhoft**, Veterinærinstituttet - Eksponering av dioksiner og dioksinlike PCB hos dyr og risiko for dyras helse

15.45 Questions/comments

16:00 End of meeting

Comments: Approximately, 40 people attended the spring meeting. Only 20 remained at the end. Disappointingly, few of the attendees were UiO students.

Høstmøtet 2019

PFOS og PFAS i Tyrifjorden, kjøkkenet og skiløypa.

Når: Tirsdag 5. november, 13:00-15:00

Hvor: Folkehelseinstituttet Rom L8 HB 1013 Auditoriet

Agenda

13:00 **Kristine Gutzkow**, Folkehelseinstituttet: Hvor helseskadelig er PFAS PFOA og Teflon? Hvorfor forsvinner det aldri?

13:25 **Eivind Farmen**, Miljødirektoratet: PFAS i Tyrifjorden - vann og fisk en helsetrussel?

13:50 **Jan Lyche**, NMBU: Spor etter fluor i skisporet?

14:00 Kaffe

14:15 **Eleni Papadopoulou**, Folkehelseinstituttet: PFAS and mixture effects on the liver. The Helix multicentre studies.

14:30 **Birgitte Lindeman**, Folkehelseinstituttet: Skismøring - eksponering å bekymre seg for?

14:45 **Berit Granum**, Folkehelseinstituttet: PFAS påvirker immunsystemet vårt. Er det så farlig?

15:00 Spørsmål diskusjon og slutt

Comments: About 50-ersoner deltok på dette vårmøtet. It was also Skype streamed to UiB for about 5-8 people? The skype stream worked, but could be improved.

Nominasjon av NSFT's publikasjonspris innen toksikologi for 2019

Siden 2014 har NSFT tildelt pris for årets beste publikasjon fra norske fagmiljøer innen hhv. farmakologi og toksikologi (akseptert for publikasjon i perioden 1. november året før til 31. oktober inneværende år).

I 2019 har komiteen for vurderingen bestått av Jason Matthews (UiO), Vibeke Ansteinsson (TKØ) and Ketil Hylland (UiO)

Toksikologiseksjonen fikk inn 11 nominasjoner til denne prisen.

Vinner av publikasjonsprisen innen toksikologi er: Johanna Samulin Erdema for artikkelen «*Cellulose nanocrystals modulate alveolar macrophage phenotype and phagocytic function*». The article was published in the journal Biomaterials and the research was done at the National Institute of Occupational Health (STAMI).

This article investigated the effects of cellulose nanocrystals (CNC) on alveolar macrophage polarization, inflammation and cellular function. CNC is an attractive biomaterial and novel material that is clearly relevant for society and as such there is potential for occupational exposure. However, toxicity data on CNC are lacking. The study found that CNC exposure may result in dysregulation of macrophage activation and function, both of which are critical in inflammatory.

The publication was well-written and included relevant endpoints generated from an impressive amount data. Moreover, the study was comprehensive, well-designed and had clear toxicological and societal relevance.

Vintermøtet 2020

Styret har foreslått en del temaer til symposia

- Beito-forelesning – Stewar Owen fra AstraZeneca “Using fish cells to build micro-organs that help us better understand the risk of pharmaceuticals in the environment”
- ADHD
- Polarforskning i toksikologi
- Luftforurensning

Toksikologiseksjonen fikk inn 10 abstrakter for orale presentasjoner og 12 abstrakter for postervisninger til Vintermøtet 2020.

3. Establishment of a «Poulsson» pris in Økotoksikologi. This still needs to be discussed. According to the Poulsson award charter, the award cannot be given to an Økotoksikolog. This still needs to be confirmed. If this is indeed the case, then a new award for outstanding contributions to Økotoksikologi will need to be established.

4. Utgivelse av "TOKSIKOLOGEN"- Toksikologiseksjonens fagtidsskrift. There were no editions of "Toksikologen" produced in 2019. Suggestions from last year's winter meeting were to start a blog or something similar, but unfortunately, nothing has been done to make this happen.