



TFIAM/COST729/NinE Workshop on integrated modelling of nitrogen

28-30 November 2007,
Conference Center
2361 Laxenburg, Austria

DAY 1 (start at 14:00 h after joint lunch)

Buffet lunch starts at 12:00 in the Conference Center

Session 1: Introduction (14.00 – 15.20)

Chair: Markus Amann

14:00 – 14:10	<i>Leen Hordijk, Director IIASA – Welcome</i>
14:10 – 14:20	<i>Johan Sliggers – Expectations of the Working Group on Strategies and Review of the Convention on Long-range Transboundary Air Pollution</i>
14:20 – 14:30	<i>Rob Maas – Purpose of the workshop</i>
14:30 – 14:50	<i>Jan Willem Erisman – Introduction to integrated nitrogen approaches</i>
14:50 – 15:10	<i>Mark Sutton – Integrated nitrogen activities in Europe</i>
15:10 – 15:20	<i>Eduard Dame – Nitrogen in various EU directives – the need for coherent modelling information</i>
15:20 – 15:50	Coffee break

Session 2: Integrated assessment modelling of nitrogen (15.50 – 18.00)

Chair: Jan Willem Erisman

15:50 – 16:10	<i>J. Webb, B. Reidy, U. Dämmgen, N. Hutchings, H. Menzi, T. Miselbrook, L. Rodhe, H. Luesink, F. van Evert</i> – Nitrogen flow modelling: lessons from the EAGER project
16:10 – 16:30	<i>G.L. Velthof, D.A. Oudendag, H.P. Witzke, W.A.H. Asman, Z. Klimont, G-J. Monteny, and O. Oenema</i> – Quantitative assessment of effects of environmental policies on nitrogen emissions in EU-27 using MITERRA-EUROPE
16:30 – 16:50	<i>H. Kros, W. de Vries, G. Velthof, E. Gies and A. Hensen</i> – Integrated assessment of atmospheric emissions of ammonia and green house gases and nitrogen leaching at a landscape level
16:50 – 17:20	Coffee break
17:20 – 17:40	<i>J. Webb et al.</i> – Measuring the N-cycle
17:40 – 18:00	<i>Z. Klimont, M. Amann, W.A.H. Asman, and W. Winiwarter</i> – Integrated nitrogen approaches in the GAINS model
18:00 Departure to the social event	

DAY 2 (09:00 – 18:00)

Session 3: Integrated modelling of the fate and impacts of nitrogen in the environment, including linkages between the nitrogen and the carbon cycle (09:00 – 12:00)

Chair: Mark Sutton

09:00 – 09:20	<i>H. Fagerli</i> – Nitrogen modelling in EMEP/MSX-W
09:20 – 09:40	<i>J.P. Hettelingh</i> – Modelling exceedances of critical nitrogen loads and dynamic ecosystem effects
09:40 – 10:00	<i>G. Billen</i> – Modelling the N cascade at the regional scale
10:00 – 10:20	<i>S. Belyazid, H. Sverdrup, C. Akselsson, A. Nordin, P. Grennfelt</i> – Integrated dynamic ecosystem modeling for simulating nitrogen deposition effects and estimating critical loads of nitrogen based on changes in the composition of the ground vegetation
10:20 – 10:50	Coffee break

10:50 – 11:10	<i>R. Kiese, S. Wochele, Ch. Heinzeller, R. Grote and K. Butterbach-Bahl</i> – Modelling and assessing effects of N-deposition in forest ecosystems in Germany
11:10 – 11:30	<i>A. Leip, G. Marchi, L. Orlandini, and M. Kempen</i> – Integrating an economic model for European agriculture with a mechanistic model to estimate nitrogen and carbon losses from arable soils in Europe – net climate impact of rapeseed cultivation for biofuels
11:30 – 11:50	<i>W.de Vries, H. Kros, W. Wamelink, G.J. Reinds, R. Wieggers, J. Mol, S. Solberg, M. Dobbertin, H. Sterba, D. Laubhahn, M. van Oijen, M. Sutton, and P. Gundersen</i> – The impact of nitrogen deposition on carbon sequestration by terrestrial ecosystems
11:50 – 12:10	<i>M. Barrett</i> – The emission reductions and costs of applying best available technologies to power stations in Europe
12:10 – 14:00	Lunch – Schloss Restaurant

Session 3: Continued (14:00 – 14:40)

14:00 – 14:20	<i>H. Westhoek, B. Eickhout, and H. van Grinsven</i> – Modelling regional impacts of trends and policies on EU and global level: integrating agriculture, land use, environmental and socio-economic aspects with EURuralis 2.0
14:20 – 14:40	<i>B. Grizzetti</i> – Nitrogen FATE in European waters
14:40 – 15:00	Coffee break

Session 4: National experiences (15:00 – 18:00)

Chair: Johann Sliggers

15:00 – 15:20	<i>G. Calori, T. Pignatelli, G. Vialetto, I. D’Elia, M. Contaldi, F. Contardi, F. Sordi, P. Radice, G. Truffo, G. Arduino, T. Pittini (Italy)</i> – The implementation of regional air quality plans: nitrogen oxides and PM assessment through RAINS-Italy and local models
15:20 – 15:50	<i>T. Misselbrook, J. Webb (UK)</i> – Experience in the UK
15:50 – 16:10	<i>N. Hutchings, S. Gyldenkerne (Denmark)</i> – Experience in Denmark
16:10 – 16:40	Coffee break

16:40 – 16:50	<i>B. Amon</i> (Austria) – Experience in Austria
16:50 – 17:10	<i>U. Dämmgen</i> (Germany) – GAS-EM - comprehensive treatment of emissions and the N ₂ problem
17:10 – 17:30	<i>M. Forsius, A. Tohka, K. Kupiainen</i> (Finland) – Experience in Finland
17:30 – 17:50	<i>T. Spranger, M. Geupel</i> (Germany) – Nitrogen emission abatement strategy of UBA
18:00	Busses leave to the hotels

DAY 3 (09:00 – 15:00)

Session 4: Continued (09:00 – 09:20)

09:00 – 09:20	<i>J. Sliggers</i> (Netherlands) - Experiences with integrated nitrogen policy making – what are the difficulties in implementing integrated modelling results?
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Session 5: Concluding session (09:20 – 13:00)

Chair: Rob Maas

09.20 - 09.30	<i>A. Bleeker</i> (Netherlands) - Nitrogen Visualisation - A simple way to communicate a complex problem
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Panel discussion – How broad can integrated modelling of nitrogen be?

Rob Maas – Conclusions and recommendations for the Convention on LRTAP and the COST729 program

End 13.00 → Lunch (sandwiches, tea, coffee)

13:00	Small bus (up to 20 people) leaves to the airport
15:00	large bus leaves to the airport