

EGF konference 17. - 21. juni 2018 i Cork, Irland

Konferencens overordnede tema var "Sustainable meat and milk production from grasslands". Dette blev understreget i indlæg og bedriftsbesøg ved fokus på værdien af afgræsning og reduceret indkøb af udenlandsk foder. Sessionerne med især afgræsning viste, at flere europæiske lande har fået øjnene op for værdien af kløver i græsmarken. Et andet stort tema var "remote sensing", der viste at rigtig mange europæiske lande arbejder uafhængigt af hinanden med udvikling af diverse algoritmer til tolkning af data fra droner og satellitter i græsmarken. Besøget på forsøgsstationen Moorepark illustrerede hvordan irerne med brug af en stor og statsfinansieret sortsafprøvning kunne værdisætte hver enkelt græssort i forhold til egenskaber som forårsvækst, samlet årsudbytte, foderkvalitet og persistens. Noget som også i Danmark i den grad kunne øge sortsbevidstheden hos danske landmænd og rådgivere.



Scientific Programme

Sustainable Meat and Milk Production from Grasslands

1. Resilient plants for grass based ruminant production systems, adapting grassland systems to the dynamics of climate and resource availability
2. Appropriate livestock for grasslands, key characteristics of animals adapted to and suitable for grasslands
3. Environmental influences on grassland systems – consequences of climate change, mitigation strategies, and impacts on ecosystems
4. Social and economic impacts of grass based ruminant production
5. Big data and smart technologies in grassland
6. Knowledge transfer to stakeholders

Sunday – June 17th

09.00 – 16.00 – *Master Classes and Working Groups*

Working Group 'Grazing' and Grazing Masterclass – Moorepark – 08:00 – 17:00

Moorepark

Working Group 'Sensing in grassland and forage science and practice' – Rochestown Park

Hotel – 13:00 – 16:30

Syndicate 2

14:00 – 19:00 – Registration

Kiltegan Suite

17.30 -18:15 - *Opening Ceremony – Chair – Dr. Michael O'Donovan, Chairperson, Organising Committee, EGF 2018*

Estuary Suite

- **Prof. Frank O'Mara, President, EGF**
- **Prof. Gerry Boyle, Teagasc**

18:15 – 19:15 – *Opening session – Chair – Prof. Gerry Boyle, Teagasc, Ireland*

Estuary Suite

The evolution of grassland in the European Union in terms of utilisation, productivity, food security and the importance of adoption of technical innovations in increasing sustainability of pasture-based ruminant production systems

Dillon, P.G.

Ruminant grassland production systems in Ireland

O'Donovan, M., Hennessy, D. and Creighton, P.

19:15 – Welcome Reception

Atrium

Monday – June 18th

Session I – Chair – Prof. Dirk Reheul, University of Gent, Belgium

08:30 – 09:30 – *Plenary papers*

Estuary Suite

Breeding resilient cultivars for European grass based ruminant production systems
Gilliland, T.J., Hennessy, D. and Ball, T.

Robust animals for grass based production systems
Delaby L., Buckley F., McHugh N. and Blanc F.

09:30-10:30 – *Coffee and Poster Session (Themes 1 & 3)*
Kiltegan Suite

10:30 – 12:30 – *Parallel Sessions (Themes 1 & 3)*
Theme 1 – Chair – Dr. Rene Baumont, INRA, France

Resilient plants for grass based ruminant production systems, adapting grassland systems to the dynamics of climate and resource availability

Estuary Suite

- 10:30 Tubritt, T., O'Donovan, M. and Gilliland, T.J. *Comparison of utilisation performance of perennial ryegrass varieties*
- 10:45 Lovatt, J.A., Ander, E.L., Broadley, M.R., Bone, P., Crout, N.M.J., Graham, N., Hayden, R., Kendall, N.R., Kumssa, D.B., Lark, R.M., Lovatt, A.C., Palmer, S., Penrose, B., Skot, L., Thomson, R., Wilson, P. and Young, S.D. *Breeding grass varieties with increased magnesium content to prevent hypomagnesaemia in ruminants*
- 11:00 Fox, A., Suter, M., Widmer, F. and Lüscher, A. *Yield stimulating legacy effect of sown legume abundance in a ley on the performance of a Lolium multiflorum following crop*
- 11:15 Sitzia, M., Manca C., Epifani G.P. and Loi, A. *Enhancing Sulla (Hedysarum coronarium L.) introduction to different soil types through inoculation with rhizobia strain*
- 11:30 Hoekstra, N.J., De Deyn, G.B. and Van Eekeren, N. *Red clover cultivars of Mattenkee type show higher yield and persistence than Ackerklee type*
- 11:45 Nadeem, S., Steinshamn, H., Sikkeland, E.H., Gustavsson, A.M. and Bakken A.K. *The relationship between phenological development of red clover and its feed quality in mixed swards*
- 12:00 Porqueddu, C., Dettori, D., Nieddu, D. and Melis, R.A.M. *Performance of legume-based annual forage crops in a Mediterranean environment*
- 12:15 Guy, C., Hennessy, D., Gilliland, T.J., Coughlan, F. and McCarthy, B. *Perennial ryegrass ploidy and white clover: how do they affect sward performance?*
- 12:30 Parsons, D., Zhou, Z. and Palmborg, C. *Production and botanical composition of leys in a long-term cropping system experiment in northern Sweden*

Theme 3 – Chair – Dr. Abad Chabbi, INRA, France

Environmental influences on grassland systems – consequences of climate change, mitigation strategies, and impacts on ecosystems

Syndicate 2 and 3

- 10:30 Dellar, M., Topp, C.F.E., Banos, G. and Wall, E. *A meta-analysis on the impacts of climate change on the yield of European pastures*
- 10:45 Ruelle, E., Delaby, L. and Hennessy, D. *Impact of climate change on grass growth at two sites in Ireland*
- 11:00 Zumwald, J. Braunschweig, M., Nemecek, T., Schüpbach, B., Jeanneret, Ph., Roesch, A., Hofstetter, P. and Reidy, B. *Life cycle assessment of grassland-based dairy production systems in Switzerland*
- 11:15 Järvenranta, K., Virkajärvi P., Pulkkinen H., Huuskonen A., Nousiainen J., Hietala S., and Pesonen, M. *Dynamic LCA model for estimating environmental effects of Finnish beef production (FootprintBeef)*
- 11:30 Malisch, C.S., Reinsch, T., Kluß, C., Herrmann, A., Loges, R. and Taube, F. *Net primary productivity and soil carbon balance of different forage production systems*
- 11:45 Dorn, K., Menzi, H., Hofstetter, P. and Reidy, B. *Nitrogen and phosphorus fluxes of grassland-based dairy production systems on mixed farms in Switzerland*

- 12:00 Hoppe, G.M., Morrow, E. and Gilliland, T.J. *Long-term trend in perennial ryegrass (Lolium perenne L.) delineator cultivar heading dates from 1984 to 2016*
- 12:15 Poetsch, E.M. Lenzen, D. and Schellberg, J. *Response of plant functional traits to temperature along an alpine gradient of altitude*

9:30 – 12:30 – EGF Executive Committee Meeting
Birch Suite

12:30 – 14:00 – Lunch

Session II – Chair – Prof. Frank O’Mara, Teagasc

14:00 – 15:00 – Plenary papers
Estuary Suite

A review of big data, smart and precision technologies in pasture based dairying systems
S Shalloo, L., Leso, L., McDonagh, A., Geoghegan, A., Werner, J. and O’Leary, N.

Social and economic impacts of grass based ruminant production
van den Pol-van Dasselaar, A., Becker, T., Botana Fernández, A., Hennessy, T. and Peratoner, G.

15:00 – 15:45 – Coffee and Poster Session (Theme 2 and 4)
Kiltegan Suite

15:45 – 17:30 – Parallel Sessions

Theme 4 – Chair – Prof. Sylvain Plantureux, Université De Lorraine – INRA, France

Social and economic impacts of grass based ruminant production systems

Estuary Suite

- 15:45 Gulati, A., Hennessy D., Lewis E., O’Donovan M., McManus J.J., Fenelon M. A. and Guinee T.P. *Effect of dairy cow feeding system on milk composition and processability*
- 16:00 Botana, A., González L., Dagnac T., Resch-Zafra C., Pereira-Crespo S., Veiga M., Lorenzana R., Fernández-Lorenzo B. and Flores-Calvete G. *Fatty acids and lipo-soluble antioxidants in milk from dairy farms in the Atlantic area of Spain*
- 16:15 Klingler, A., Resch, R. and Poetsch, E.M. *Effects of grassland extensification on yield, forage quality and floristic diversity*
- 16:30 Laisse, S., Baumont, R., Veysset P., Benoit M., Madrange P., Rouillé, B. and Peyraud, J.L. *The net contribution of ruminant production to the protein supply for humans*
- 16:45 García-de-la-Fuente, L., Guzmán Otano, D., Mora Cabello de Alba, A., Nobre, S. and Brau-Nogué, C. *Designing economic instruments to maintain and enhance hay meadow biodiversity in south-west European mountain areas*
- 17:00 Hanrahan, L., McHugh N., Hennessy T., Moran B., Kearney R., Wallace M. and Shalloo L. *Factors associated with profitability in pasture based systems of milk production*
- 17:15 Junklewitz, P., Berlin, K. and Basten, M. *Sulphur improves feed quality in intensively managed grassland in Germany*

Theme 2 – Chair – Dr. Emer Kennedy, Teagasc, Ireland

Appropriate livestock for grasslands, key characteristics of animals adapted to and suitable for grasslands

Syndicate 2 and 3

- 15:45 Riesch, F., Tonn B., Meißner M. and Isselstein J. *Grazing by free-ranging red deer: effective management for semi-natural grassland conservation?*
- 16:00 Connolly, J. *Perspectives on the use of animal as replicate in grazing experiments*
- 16:15 Zom, R.L.G., Van Berkel, I.A.J., Oegema, M.D. and Holshof, G. *Can we motivate dairy cows to increase their grass intake by feeding low protein supplements?*

- 16:30 Schori, F. *Feeding zero concentrate to dairy cows*
- 16:45 Pavlů, V.V., Pavlů, L., Gaisler, J., Kassahun, T., Hejcman, M. and Pavlů, K. *Effect of long-term grazing on dry matter biomass production and heifer performance*
- 17:00 McGovern, F.M., Fetherstone, N., Creighton, P. and McHugh, N. *Comparing grass utilisation and herbage intake of elite New Zealand versus Irish ewes in the pre-weaning period*
- 17:15 Delagarde, R., Belarbre N. and Charpentier A. *Accuracy of the ytterbium-faecal index method for estimating intake of pasture-fed dairy goats*

17:30 – Buses depart from Kiltegan Suite entrance for Civic Reception at Cork City Hall. Canapes will be served. Delegates free to explore the city after the reception and make their own way back to their accommodation.

Tuesday – June 19th

08:00 - Depart Rochestown Park Hotel

09:00 – 12:00 – Moorepark Research Centre

12:00 – Depart Moorepark for one of 5 Mid-Conference Tours

Tour 1 – Sustainable Grass-based Meat Production

This Tour will travel west of Cork City to mid-Cork. It will visit a beef farm and a sheep farm. Both farms are family run businesses and are grass based. Livestock are turned out to grass in February and the grazing session continues until November. Grazed grass is the primary source of feed for meat production on these farms. Delegates will visit paddocks and learn about the grazing and grassland management, the production systems implemented on the farms, and production and financial data will be presented. The beef farmer is currently the Beef Grassland Farmer of the Year.

Tour 2 – Using SMART Technology in Grassland Research and Grassland Farming, and Grass-based Dairy Products

This Tour will visit the Teagasc SMART Farm at Dairygold Research Farm, close to Moorepark. Delegates will learn how smart technologies such as sensors and decision support tools are being used on a dairy farm and the benefits of technology for research and dairy farming. Incorporating automatic milking with grazing systems will also be discussed. The Tour will then visit a dairy processor in North Cork and discover the importance of grass based milk production for Irish dairy products.

Tour 3 – Biodiversity and Sustainable Production

This Tour will visit Teagasc Curtins Research Farm and a dairy farm. Developing sustainable grass based dairy production systems is a key focus of Curtins Research Farm, with particular focus on water quality. The second visit is to a productive dairy farm where there is a particular interest in incorporating measures to increase bio-diversity. The farmer on this farm was recently successful in securing funding for a project from the European Innovation Partnerships Initiative (EIP). Delegates on this tour will learn about grazing and grassland management, nutrient use management, water quality, biodiversity enhancement, and production data will be presented.

Tour 4 – Forage Production and Evaluation

This Tour will visit the Department of Agriculture, Food and the Marine Crop Evaluation Site at Ballyderown, Fermoy, Co. Cork. The visit will focus on the evaluation of grass and clover varieties for the Recommended List in Ireland. The evaluation protocols will be discussed and delegates will see the varieties in-situ. The Teagasc Pasture Profit Index will also be presented. The Tour will then visit the GoldCrop Facility. GoldCrop are Teagasc's commercial breeding partner, with responsibility for propagating and marketing all forage material coming from the Teagasc Grass and Clover breeding programme.

Tour 5 – Irelands expanding milk pool

Milk production in Ireland is expanding since the removal of milk quota. Grazed grass is the basis of Ireland's efficient milk production systems. This tour will visit two of the top dairy farmers in Ireland. Both are family run farm businesses with excellent grassland management. Both farmers are amongst

the top grassland farmers in Ireland, and one of them is currently Grassland Farmer of the Year. Delegates will view and discuss farm infrastructure, grassland management, dairy cow breeding, and production and financial data will be presented.

Wednesday – June 20th

Session III – Chair – Dr. Tom O’Dwyer, Teagasc

08:30 – 09:30 – *Plenary papers*
Estuary Suite

Towards sustainable European grassland farming with Inno4Grass: an infrastructure for innovation and knowledge sharing

Krause A., Becker T., Feindt, P.H., Huyghe C., O’Donovan M., Peeters A. and Van den Pol-van Dasselaar, A.

The carbon sequestration of grassland soils – climate change and mitigation strategies

Klumpp, K. and Fornara, D.A.

09:30 -10:30 – *Coffee and Poster Sessions (Theme 1 and 6)*
Kiltegan Suite

10:30 – 12:30 - *Parallel Sessions*

Theme 1 – Chair – Dr. Mervi Seppänen, University of Helsinki, Finland

Resilient plants for grass based ruminant production systems, adapting grassland systems to the dynamics of climate and resource availability

Estuary Suite

- 10:30 Klootwijk, C.W., Zom, R.L.G., Van den Pol-Van Dasselaar, A., Van Middelaar, C.E., Holshof, G. And De Boer, I.J.M. *Amazing Grazing: N use efficiency of 60 individual dairy cows under intensive grazing*
- 10:45 Wall, D.P., Fox, I. and Bailey, J. *Effect of soil type, lime and phosphorus fertiliser application on grass yield and quality*
- 11:00 Díaz Fernández, D.D.F. and Nagy, G. *Sustainable fertilisation of natural grasslands*
- 11:15 Schils, R.L.M., Höglind, M., van Middelkoop, J., Holshof, G., Verloop, J.J., Rijk, B., van de Ven, G., van den Berg, W., van der Schoot, J.R. and van Ittersum, M.K. *Framework for yield gap analysis in grasslands*
- 11:30 Wolf, M. and Laser, H. *Experimental simulation of intensive grazing and other management systems in a low mountain range*
- 11:45 Dineen, M., Higgs, R., McCarthy, B. and Van Amburgh, M.E. *Evaluation of the Cornell Net Carbohydrate and Protein System version 7.0 for pasture-based systems*
- 12:00 McConnell, D.A., Scoley, G. and Gordon, A. *Impact of pre-cutting herbage mass on cow performance and sward utilisation in zero-grazing systems*
- 12:15 Jatkauskas J. and Vrotniakiene V. *Improvement silage nutritive and hygienic value using viable lactic acid bacteria inoculant*
- 12:30 Patterson, R., Morrison, S., Laidlaw, S. and Theodoridou, K. *The effect of pasture allowance on the performance of growing dairy heifers*

Theme 6 – Chair – Mr. Kevin Macdonald, DairyNZ

Knowledge transfer to stakeholders

Syndicate 2 and 3

- 10:30 Ollion, E., Brives, H., Cloet, E. and Magne M.A. *Suitable cows for grass-based systems: what do stakeholders do in France?*
- 10:45 Schmitz, A. and Isselstein, J. *Evaluation of horse farmers’ knowledge and attitude towards grassland management*

- 11:00 Champion, F.P. Lynch, C. and Diskin, M.G. *A case study on the adoption of grazing skills and technologies on the Teagasc BETTER sheep farms*
- 11:15 Brocard, V. Rankin, J., Korevaar, H., Menghi A., Keatinge, R. *Eurodairy: a bottom-up approach to transfer innovations on grass to European farmers*
- 11:30 Keown, C. *Dairylink Ireland – ‘Best use of resources to drive profit’*
- 11:45 Peratoner, G., Kasal, A., Florian, C. and Pramsöhler, M. *Accuracy of visual assessment of the plant stand type for the estimation of forage quality*
- 12:00 Pick, S., Genever, E., Wheeler, K., Jones, M. and Morgan, C. *Increasing beef production from grass and grazed forage by using farmers as mentors*
- 12:15 Maher, J. and Bogue, F. *Grass10 - An extension campaign to improve the level of grass production and utilisation*

12:30 – 14:00 pm – Lunch

Session IV – Chair – Dr. Aidan Moloney, Teagasc, Ireland

14:00 - 15:00 – Plenary papers

Estuary Suite

Influence of pasture-feeding on milk and meat product quality

Stanton, C., Mills, S., Ryan, A., Di Gioia, D. and Ross, R.P.

Optimising ecosystem services provided by grassland systems

Huguenin-Elie O., Delaby L., Le Clec’h S., Moreno G.M., Teixeira R.F.M. and Schneider M.K.

15:00 – 15:45 - Coffee and Poster Sessions (Theme 3 and 5)

Kiltegan Suite

15:45 – 17:30 – Parallel Sessions

Theme 3 – Dr. Jean-Louis Peyraud, INRA, France

Environmental influences on grassland systems – consequences of climate change, mitigation strategies, and impacts on ecosystems

Syndicate 2 and 3

- 15:45 Larkin, J., Sheridan, H., Finn, J.A., Denniston, H. and Ó hUallacháin, D. *Semi-natural habitats on intensive grassland farms in Ireland*
- 16:00 Forrestal, P., Harty, M., Carolan, R., Lanigan, G., Krol, D., Hennessy, D., G., Wall, D., Watson, C., Richards, K. *Grassland yield and nitrogen uptake as influenced by urea or ammonium nitrate based fertilisers*
- 16:15 Van Middelkoop, J.C. *Effect of nitrogen and phosphorus fertilisation and their interaction on nitrogen-phosphorus ratio of grass*
- 16:30 Kykkänen, S., Hyrkäs, M., Korhonen, P., Hartikainen, M., Toivakka, M., Kauppila, R., Kärkönen, A. and Virkajärvi, P. *New nitrogen fertilisation experiments challenge the old yield responses of forage grasses in Finland*
- 16:45 Mesbahi, G., Bayeur, C. and Plantureux, S. *Prediction of grassland values by phytosociological or agronomical approach*
- 17:00 Persson, T., Höglind, M., Van Oijen, M., Korhonen P., Palosuo, T., Jégo, G., Virkajärvi, P., Bélanger, G. and Gustavsson, A.-M. *Intercomparison of nutritive value simulations in three process-based timothy grass models*
- 17:15 Loges, R., Mues, S., Kluß, C., Reinsch, T., Lorenz, H., Humphreys, J. and Taube, F. *Eco-efficient milk production in northern Germany inspired by the Irish rotational grazing system*

Theme 5 – Chair – Dr. Johannes Isselstein, University of Göttingen, Germany

Big data and smart technologies in grassland

Estuary Suite

- 15:45 Riaboff, L., Bedere, N., Couvreur, S., Aubin, S., Goumand, E., Magnier, J., Madouasse, A., Chauvin, A. and Plantier, G. *Influence of pasture characteristics and time of day on dairy cow behaviour predicted from GPS-data*
- 16:00 O'Leary, N., Ahrend, A., McDonagh, A., O'Brien, B. and Shalloo, L. *A partial budgeting tool to assess investments in precision dairy technologies*
- 16:15 Möckel, T., Fricke, T. and Wachendorf, M. *Multi-temporal estimation of forage biomass in heterogeneous pastures using static and mobile ultrasonic and hyperspectral measurements*
- 16:30 Meyer, S.T., Eisenhauer, N., Jochum, M., and Weisser W.W. *Effects of biodiversity on ecosystem functioning in a grassland experiment (Jena) and implications for management*
- 16:45 Stienezen, M.W.J., Philipsen, A.P., Schils, R.L.M. and van den Pol-van Dasselaar A. *Amazing grazing: feed wedge and cutting window for grazing systems with high levels of supplementation*
- 17:00 Rinne, M., Jalava, T., Stefanski, T., Kuoppala, K., Timonen, P., Winquist, E. and Siika-aho, M. *Optimizing grass silage quality for green biorefineries*
- 17:15 McDonnell, J., Brophy, C., Ruelle, E., Lambkin, K., Fealy, R., Shalloo, L. and Hennessy, D. *Evaluation of ECMWF weather forecasts and their inclusion in an Irish grass growth model*

17:30-19:30 - Workshop on “Modelling relationships between plant diversity, the functioning of grassland systems and their ability to deliver ecosystem services” – coordinated by Gianni Bellocchi

Maple Suite

19:00 – Drinks reception
Atrium

19:45 – Conference Dinner
Estuary Suite

Thursday – June 21st

Session V – Chair – Mr. Michael Doran, Ireland

08:30 – 10:30 - Presentations and Workshops
Estuary Suite

6. Knowledge Transfer to Stakeholders – Science to Practise Mr. Kevin McDonald (DairyNZ)

3 short contributions

Farmer – Laurence Sexton, Dairy Farmer
KT specialist – Pearse Kelly, Dry Stock Specialist
Industry – Sean McCarthy, Kerry Group

Workshops

Intensive grassland – Location: Estuary Suite
Location: Syndicate 2 and 3
Semi-intensive grassland – Location: Maple Suite
Extensive grassland – Location: Atrium

10:30 – 11:15 – Coffee

11:15 – 11:30 – Feedback from the Workshops
Estuary Suite

11:30 – 12:30 – EGF Business Meeting
Estuary Suite

12:30 – 13:00 – Closing Ceremony
Estuary Suite

13:00 – Lunch

13:30 – Depart post conference tour



EGF 2018 - PRESENTATION

DAY 1 - SUNDAY JUNE 17

Dr Frank O' Mara - EGF President



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Pat Dillon - Teagasc



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Dr Michael O'Donovan - Teagasc



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DAY 2 - MONDAY JUNE 18

Session I - Plenary (08:30 - 09:30)

1 - Gilliland, T. J, Hennessy, D. and Ball, T.



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2 - L. Delaby, F. Buckley, N. McHugh and F. Blanc



Session I - Syndicate 2 and 3 Theme 3 (10:30 - 12:30)

1 - 10:30 Dellar, M.



2 - 10:45 Ruelle, E



3 - 11:00 J.Zumwald



5 - 11:30 Carsten Malisch



6 - 11:45 Beat Reidy



8 - 12:15 Poetsch



Session I - Theme 1 (10:30 - 12:30)

1 - 10:30 T.Tubritt



2 - 10:45 Lovatt



3 - 11:00 Aaron Fox



4 - 11:15 Sitzia, M.



5 - 11:30 Hoekstra



6 - 11:45 Nadeem,S



7 - 12:00 Porqueddu, Melis



8 - 12:15 Clare Guy



9 - 12:30 Parsons, Zhou



Session II - Estuary Suite Plenary (14:00 - 15:00)

1 - Laurence Shalloo



2 - Agnes van den Pol-van Dasselaar



Session II - Estuary Suite Theme 4 (15:45 - 17:30)

1 - 15:45 Gulati



2 - 16:00 Bontana, A.



4 - 16:30 Laisse, S. Baumont



5 - 16:45 García-de-la-Fuente, L.



6 - 17:00 Hanrahan, L.



7 - 17:15 Junklewitz



Session II - Syndicate 2 and 3 Theme 2 (15:45 - 17:30)

1 - 15:45 Riesch, F.



2 - 16:00 John Connolly



3 - 16:15 R.L.G. Zom



4 - 16:30 Schori, F.



5 - 16:45 Pavlu



6 - 17:00 F. McGovern



7 - 17:15 Delagarde



DAY 4 - WEDNESDAY JUNE 20

Session II - Estuary Suite Plenary (08:30 - 09:30)

2 - Katja Klumpp & Dario Fornara



Session III - Estuary Suite Theme 1 (10:30 - 12:30)

1 - 10:30 Cindy Klootwijk



4 - 11:15 Schils



5 - 11:30 Wolf



6 - 11:45 Dineen



8 - 12:15 J.Jatkauskas



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9 - 12:30 Patterson, R.



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Session III - Syndicate 2 and 3 Theme 6 (10:30 - 12:30)

1 - 10:30 Emilie Ollion



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2 - 10:45 Schmitz, A.



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4 - 11:15 Brocard



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5 - 11:30 Keown



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6 - 11:45 Peratoner



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7 - 12:00 Pick, S., Genever



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8 - 12:15 Maher



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Session IV - Estuary Suite Plenary (14:00 - 15:00)

1 - Stanton



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2 - Huguenin-Elie O.



Download

Session IV - Estuary Theme 5 (15:45 - 17:30)

1 - 15:45 Riaboff, L.



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2 - 16:00 O'Leary, N



4 - 16:30 Meyer



5 - 16:45 Stienezen



6 - 17:30 Rinne



7 - 17:15 McDonnell



Session IV - Syndicate 2 and 3 Theme 3 (15:45 - 17:30)

1 - 15:45 Larkin



2 - 16:00 Forrestal, P.



3 - 16:15 Van Middelkoop



5 - 16:45 Mesbahi



6 - 17:00 Persson



DAY 5 - THURSDAY JUNE 21

1 - Kevin McDonald



2 - Laurence Sexton



3 - Kelly KT



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