PROGRAMME FOR "THE WONDERS OF STAR FORMATION"
EDINBURGH, 3 - 7 September, 2018

Sunday, 2 September 2018 **HansFest**

Time	Event
18:00-20:00	Reception at John McIntyre Conference Centre

Monday, 3 September 2018 (morning) **HansFest**

Time	Speaker	Title/Event
Chair:	*Mark McCaughrean*	
09:00-09:20	Ken Rice & Andrea Lagarini	*Welcome to HansFest*
		Molecular Clouds and Filaments
09:20-10:00	Sarah Ragan	*Molecular Clouds and Filaments (invited review)*
10:00-10:20	Paul Clark	*Can we use [CII] to trace the formation of molecular clouds?*
10:20-10:40	Jürgen Stutzki	*[13CII] and 12CII] observations: optical depth effects and C^+ column-densities*
10:40-11:10		coffee break and posters
11:10-11:30	Nicola Schneider	*[OI] 63 micron observations of S106 with upGREAT/SOFIA*
11:30-11:50	Caroline Gieser	*Chemical complexity of AFGL 2591*
11:50-12:10	Kazunari Iwasaki	*The formation of molecular clouds by compression of two-phase atomic gases*
12.10-12:30	Shu-ichiro Inutsuka	*The formation and evolution of filamentary molecular clouds and star formation*
12:30-12:50	Toshikazu Onishi	*High-mass star formation in GMCs in the Magellanic Clouds*
12:50-14:00		lunch break

Time	Speaker	Title/Event
12:50-14:00		lunch break
Chair:	*Pamela Klaassen*	
14:00-14:20	Matthew Povich	*X-raying the bones of the Milky Way: accelerating star formation rates in infrared dark clouds*
14:20-14:40	Enrique Vázquez-Semadeni	*Hoyle fragmentation in turbulent molecular clouds: sequential onset of contraction on successively smaller scales*
14:40-15:00	Jin Koda	*ALMA CO absorption study – smallest GMC structures*
15:00-15:20	Thierry Montmerle	*Molecular cloud ionisation: where are the cosmic rays?*
15:20-15:50		coffee break and posters
		Low-Mass Star Formation
15:50-16:10	Derek Ward-Thompson	*The wonders of magnetic fields in star-forming regions*
16:10-16:30	James Wurster	*Low-mass star formation and non-ideal magnetohydrodynamics*
16:30-16:50	Yusuke Aso	*ALMA observations of Serpens Main: protostellar evolution at the Class 0 stage*
		Capturing the Spirit of Hans
16:50-17:10	Cathie Clarke	*An overview of Hans's many contributions to astronomy*
17:10-17:30	Hal Yorke	*SOFIA today and tomorrow*
17:45-18:00		Buses to . . . . .
18:00-20:30		Wine and Cheese at the Observatory, Blackford Hill **(limited spaces available)**

Time	Speaker	Title/Event
Chair:	*Erick Young*	
		Low-Mass Star Formation (continued)
09:00-09:20	Alison Young	*Synthetic molecular-line observations of the first hydrostatic core*
09:20-09:40	Birgit Hasenberger	*A physically motivated dense-core extraction technique applied to Herschel/Planck observations*
09:40-10:00	Evgenia Koumpia	*The chemical structure of the Class 0 protostellar envelope NGC 1333 IRAS 4A*
10:00-10:20	Kazuki Tokuda	*A detailed ALMA study of an early stage protostar formation in a highly dynamical dense core*
		High-Mass Star Formation
10:20-10:40	Rolf Kuiper	*Accretion and feedback in the formation of massive stars*
10:40-11:10		coffee break and posters
11:10-11:30	Kei Tanaka	*Theoretical modelling of massive star formation*
11:30-11:50	Anna Rosen	*The formation of massive stars with radiative and protostellar outflow feedback*
11:50-12:10	Robi Banerjee	*Formation of high-mass stars and magnetic fields*
12:10-12:30	Ian Bonnell	*Competitive accretion and the formation of high-mass stars in clusters*
12:30-12:50	Katharine Johnston	*A high-resolution picture of fragmentation and accretion in the AFGL 4176 disc*
12:50-14:00		lunch break
Chair:	*Phil Lucas*	
14:00-14:20	Rene Oudmaijer	*The formation and evolution of the intermediate-mass pre-Main Sequence Herbig Ae/Be stars*
14:20-14:40	Göran Sandell	*NGC7538 – our key to understanding high-mass star formation*
14:40-15:00	Joana Oliveira	*Herschel spectroscopy of massive YSOs in the Magellanic Clouds*
15:00-15:20	Monica Rubio	*Massive YSOs in star forming regions in the Magellanic Clouds*
15:20-15:50		coffee break and posters
15:50-16:10	Stuart Lumsden	*Radio jets from massive protostars as a probe of evolution*
16:10-16:30	Steffi Walch	*Molecular cloud formation and dispersal by stellar feedback*
		Jets and Outflows
16:30-16:50	Jennifer Wiseman	*HH212: the most beautiful jet*
16:50-17:30	John Bally	*The Challenges Ahead, I (open forum)*

Time	Speaker	Title/Event
Chair:	*Monika Petr-Gotzens*	
09:00-09:40	Sylvie Cabrit	*Jets and outflows (invited review)*
09:40-10:00	Bo Reipurth	*Herbig-Haro flows from multiple stellar systems*
10:00-10:20	Tom Geballe	*Highly Excited Molecular Hydrogren in Herbig-Haro 7*
10:20-10:40	Larisa Tambovtseva	*Studies of young stars with accretion, and outflow-tracing spectral lines*
10:40-11:10		coffee break and posters
11:10-11:30	Bringfried Stecklum	*A wonder of star formation - watching a massive star grow*
11:30-11:50	Vladimir Grinin	*The UX Ori type activity in young cool stars*
		Triggering and Feedback from Massive Stars
11:50-12:10	Sam Geen	*The (Un)predictability of star formation on a cloud scale*
12:10-12:30	Pamela Klaassen	*Carina's pillars of destruction: the view from ALMA*
		Reminiscences
12:30-13:00	Hans Zinnecker	*My passion for star formation (and the ISM)*
13:00-14:00		Lunch
		Excursions, etc. (see conference website for more details)
14:30-16:30		Geological Walk up Arthur's Seat
		The Scotch Whisky Experience
		Visit to Mary King's Close
19:00-23:00		Conference Dinner at the Playfair Library, Old College

Time	Speaker	Title/Event
Chair:	*Sergei Nayakshin*	
		Triggering and Feedback from Massive Stars (continued)
09:00-09:20	Yasuo Fukui	*Triggered star formation*
09:20-09:40	Chris Wareing	*MHD simulation of cloud formation by thermal instability and consequent massive star feedback*
09:40-10:00	Franta Dinnbier	*Disentangling the relative contributions of supernovae, stellar winds, and ionising radiation on shaping the structure of galactic discs*
10:00-10:20	Jan Palouš	*Gould's Belt and beyond - II*
10:20-10:40	Jonathan Tan	*Massive star formation*
10:40-11:10		coffee break and posters
		Multiple Systems
11:10-11:50	John Tobin	*Revolutionising our view of disk and multiple star formation: new frontiers explored by ALMA and the VLA (invited review)*
11:50-12:10	Stefan Kraus	*VLTI imaging of a high-mass proto-binary system: unveiling the dynamical processes in high-mass star formation*
12:10-12:30	Rainer Köhler	*Pre-main-sequence binaries and the origin of field stars*
12:30-12:50	Bob Mathieu	*An observational study of accretion flows in short-period pre-Main Sequence binaries*
12:50-14:00		lunch break
Chair:	*Steve Beckwith*	
		Clusters
14:00-14:40	Richard Parker	*Clusters (invited review)*
14:40-15:00	Bernhard Brandl	*Studying star and planet formation with METIS on the ELT*
15:00-15:20	Peter Schilke	*Formation of clusters containing high-mass stars*
15:20-15:50		coffee break and posters
15:50-16:10	Anne Buckner	*Dance of the stars: an analysis of the spatial evolution in two clusters*
16:10-16:30	Oliver Lomax	*Modelling the structure of star clusters with fractional Brownian motion*
16:30-16:50	Becky Arnold	*Quantifying velocity structure in star forming regions*
16:50-17:30	John Bally	*The Challenges Ahead, II (open forum)*

Time	Speaker	Title/Event
Chair:	*Mary Barsony*	
		Clusters (continued)
09:00-09:20	Amelia Stutz	*Cluster formation in Orion*
09:20-09:40	César Briceño	*Stellar demographics in Orion*
09:40-10:00	Karolina Kubiak	*On the nature of the Orion Belt Population sources*
10:00-10:20	Genevieve Parmentier	*Three star formation relations (and strengthened cluster survival) with one single model*
10:20-10:40	Christina Schoettler	*Making runaways: the ejection of stars from clusters due to dynamical evolution*
10:40-11:10		coffee break and posters
11:10-11:30	Richard Wünsch	*The origin of globular clusters and their multiple populations*
		The Galactic Context
11:30-11:50	Bruce Elmegreen	*Star formation over cosmic time*
11:50-12:10	Diederik Kruijssen	*The physics encoded by the star formation relation*
		The IMF
12:10-12:30	Mélanie Chevance	*A systematic characterisation of the evolutionary cycling between molecular clouds, star formation, and feedback in nearby galaxies*
12:30-12:50	Patrick Hennebelle	*What sets the stellar Initial Mass Function?*
12:50-14:00		lunch break
Chair:	*Ken Rice*	
14:00-14:20	John Bally	*Outflow structure, N-body interactions, and the origin of the IMF*
14:20-14:40	Henrik Beuther	*Fragmentation and disk formation in high-mass star formation*
14:40-15:00	Philippe André	*The Role of Molecular Filaments in the Origin of the IMF*
15:00-15:20	Matthew Bate	*The origin and variation of the stellar Initial Mass Function*
15:20-15:50		coffee break and posters
15:50-16:10	Nicolas Lodieu	*The photometric and astrometric mass functions in galactic open clusters*
16:10-16:30	Morten Andersen	*The formation of massive star clusters and their IMF*
16:30-16:50	Simon Glover	*The Initial Mass Function of Population III stars: where do we stand?*
		Capturing the Spirit of Hans
16:50-17:10	Eric Becklin	*Thirty six years of adventures in observational star formation with Hans Zinnecker*
17:10-17:30	Mark McCaughrean & John Rayner	*Hans Zinnecker: Astronomer, Colleague and Friend*
		Farewell