

Stellar Populations in the Cosmological Context

Summary of 2010 STScI May Symposium Agenda

Sunday May 2nd – Opening Reception at STScI Cafeteria (6 – 8 pm)

Monday May 3rd – Thursday May 6th: Science Sessions

Tuesday May 4th – Special Evening Talk by Dr. John Grunsfeld
“Hugging Hubble” (Bloomberg Auditorium – 8 pm)

Wednesday May 5th – Symposium Banquet at the Maryland Science Center
Reception and Cocktails – 6:00 – 7:00 pm
Dinner – 7:00 – 8:00 pm
“Hubble 3D” IMAX Movie – 8:15 pm

Detailed Science Agenda Follows Below

Monday, May 3rd, 2010

<i>Session Chairs</i>	<i>Introduction</i>
8:30-8:45 a.m.	Welcome: Matt Mountain, STScI Director
8:45-9:00 a.m.	<u>The Goals of this Year's Symposium</u> <i>Jason Kalirai and Massimo Robberto (STScI)</i>
<i>Mike Fall</i>	<i>The Formation of Stars and Stellar Populations</i>
9:00-9:35 a.m.	<u>The Formation of Stars</u> <i>Jonathan Tan (Univ. of Florida)</i>
9:35-10:10 a.m.	<u>Pushing Towards the Large Scale: Cluster Formation Simulations with $N=10^4$</u> <i>Cathie Clarke (Univ. of Cambridge)</i>
10:10-10:40 a.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Francesco Paresce</i>	<i>Massive Stars, Clusters and Feedback</i>
10:40-11:15 a.m.	<u>The High-Mass Stellar Population and Resulting Feedback Effects</u> <i>Sally Oey (Univ. of Michigan)</i>
11:15-11:50 a.m.	<u>An Observational Testbed for the Formation of Massive Stars: 30 Doradus</u> <i>Remy Indebetouw (Univ. of Virginia)</i>
11:50-12:25 p.m.	<u>30 Doradus: The Quintessential Resolved 'Starburst'</u> <i>Chris Evans (Royal Observatory, Edinburgh)</i>
12:25-12:45 p.m.	<u>The Where, When, Why, and How of Star Formation in the Local Group</u> <i>Guido de Marchi (European Space Agency)</i>
12:45-2:05 p.m.	<i>Lunch Break</i>
<i>Jay Anderson</i>	<i>Stellar, Chemical, and Dynamical Evolution of Stars in Clusters</i>
2:05-2:40 p.m.	<u>Multiple Stellar Populations in Star Clusters: The Observational Scenario</u> <i>Giampaolo Piotto (Univ. di Padova)</i>
2:40-3:15 p.m.	<u>The Origin of Multiple Populations in Star Clusters</u> <i>Alvio Renzini (INAF-PD)</i>
3:15-3:35 p.m.	<u>Multiple Populations in Globular Clusters: Massive Binaries as the Source of Abundance Anomalies</u> <i>Selma de Mink (Utrecht University)</i>
3:35-3:55 p.m.	<u>Formation and Dynamical Evolution of Multiple Stellar Populations in Globular Clusters</u> <i>Enrico Vesperini (Drexel University)</i>
3:55-4:25 p.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
4:25-5:00 p.m.	<u>Mapping Stellar Populations in the Milky Way with GAIA</u> <i>Carla Cacciari (INAF-BO)</i>
5:00-5:15 pm	<u>1 Minute Poster Presentations (Session 1)</u>
5:15-5:45 p.m.	<u>Interactive Discussion Chaired by Paul Goudfrooij and Nolan Walborn</u>

Tuesday, May 4th, 2010

<i>Katherine Rhode</i>	<i>Star Clusters and their Environments</i>
9:00-9:35 a.m.	<u>The Formation of Globular Clusters in ΛCDM Cosmology</u> <i>Oleg Gnedin (University of Michigan)</i>
9:35-10:10 a.m.	<u>The Life Cycle of Star Clusters</u> <i>Rupali Chandar (University of Toledo)</i>
10:10-10:30 a.m.	<u>WFC3 Observations of the Globular Cluster 47 Tuc</u> <i>Harvey Richer (University of British Columbia)</i>
10:30-11:00 a.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Linda Smith</i>	<i>Stellar Populations as Building Blocks of Galaxies - 1</i>
11:00-11:35 a.m.	<u>The Formation and Rapid Disruption of Young Clusters</u> <i>Nate Bastian (University of Exeter)</i>
11:35-12:10 p.m.	<u>Stellar-Dynamical Evaporation of Globular Clusters</u> <i>Dean McLaughlin (Keele University)</i>
12:10-12:25 p.m.	<u>1 Minute Poster Presentations (Session 2)</u>
12:25-1:45 p.m.	<i>Lunch Break</i>
<i>Tammy Smecker-Hane</i>	<i>Stellar Populations as Building Blocks of Galaxies – 2</i>
1:45-2:20 p.m.	<u>Signatures of Hierarchical Structure Formation in Stellar Populations</u> <i>Kathryn Johnston (Columbia University)</i>
2:20-2:55 p.m.	<u>Galaxy Cannibalism</u> <i>Steve Majewski (University of Virginia)</i>
2:55-3:15 p.m.	<u>A Survey of Stellar Tidal Streams in Nearby Spiral Galaxies</u> <i>David Martinez-Delgado (Max-Planck Institute for Astronomy)</i>
3:15-3:45 p.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Beth Willman</i>	<i>Resolved Stellar Populations in the Galactic Neighborhood</i>
3:45-4:20 p.m.	<u>M31 and M33: Probing the Assembly of Our Nearby Neighbors with Stars and Star Clusters</u> <i>Annette Ferguson (Royal Observatory, Edinburgh)</i>
4:20-4:40 p.m.	<u>The Pan-Andromeda Archaeological Survey</u> <i>Alan McConnachie (Dominion Astrophysical Observatory)</i>
4:40--5:00 p.m.	<u>Direct Age Determination of Local Group Dwarf Elliptical Galaxies</u> <i>Marla Geha (Yale University)</i>
5:00-5:30 p.m.	<u>Interactive Discussion Chaired By Jason Kalirai</u>
<i>Frank Summers</i>	<u>Special Evening Public Talk (Bloomberg Auditorium)</u>
8:00-9:00 p.m.	<u>“Hugging Hubble”</u> <i>John Grunsfeld (STScI, Deputy Director)</i>

Wednesday, May 5th, 2010

<i>Tom Brown</i>	<i>Stellar Populations Beyond the Local Group</i>
9:00-9:35 a.m.	<u>A High-Resolution Panoramic Study of the Structure and Substructure of the Milky Way Analogue NGC 891</u> <i>Rodrigo Ibata (Universite de Strasbourg)</i>
9:35-10:10 a.m.	<u>Galaxies as Collections of Individual Stars</u> <i>Julianne Dalcanton (University of Washington)</i>
10:10-10:25 a.m.	<u>1 Minute Poster Presentations (Session 3)</u>
10:25-10:50 a.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Ricardo Schiavon</i>	<i>From Isochrones to Population Synthesis Models</i>
10:50-11:25 a.m.	<u>Current Uncertainties in Stellar Evolution Models</u> <i>Santi Cassisi (INAF)</i>
11:25-12:00 p.m.	<u>Uncertainties in Population Synthesis Models: Applications of Population Synthesis Models to Local and Distant Galaxies</u> <i>Gustavo Bruzual (Centro de Investigaciones de Astronomia)</i>
12:00-12:20 p.m.	<u>Stellar-Population Synthesis: Which Uncertainties Matter?</u> <i>Charlie Conroy (Princeton University)</i>
12:20-1:25 p.m.	<i>Lunch Break</i>
<i>Sara Heap</i>	<i>Stellar Populations at Intermediate Redshifts</i>
1:25-2:00 p.m.	<u>The Predictive Power of Galaxy SED Models</u> <i>Danilo Marchesini (Tufts University)</i>
2:00-2:35 p.m.	<u>Stellar Populations in Galaxies Hosting GRBs</u> <i>Sandra Savaglio (Max-Planck Institute for Extraterrestrial Physics)</i>
2:35-2:55 p.m.	<u>The 2D Galaxy Population: Mass-Dependent Star Formation, Stochastic Assembly-Driven Quenching</u> <i>Genevieve Graves (University of California, Berkeley)</i>
2:55-3:15 p.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Nino Panagia</i>	<i>Global Influences: The Initial Mass Function and Star Formation Environments</i>
3:15-3:50 p.m.	<u>The IMF of Simple and Composite Populations</u> <i>Pavel Kroupa (University of Bonn)</i>
3:50-4:25 p.m.	<u>Star Formation Near and Far: The WFC3 Early Science Program</u> <i>Bob O'Connell (University of Virginia)</i>
	<i>Banquet + IMAX "Hubble 3D" Movie</i>
5:00-5:30 p.m.	<u>Board Buses and Leave for the Maryland Science Center</u>

Thursday, May 6th, 2010

<i>Mike Rich</i>	<i>Fossil Records of the First Stellar Populations</i>
9:00-9:35 a.m.	<u>Galactic Archaeology: The Lowest Metallicity Stars</u> <i>Timothy Beers (Michigan State University)</i>
9:35-10:10 a.m.	<u>Galaxy Hydroponics: Growing Galaxies from their Satellite Seeds</u> <i>Evan Kirby (California Institute for Technology)</i>
10:10-10:30 a.m.	<u>How dSph Galaxies Can Bring Light on the General Physical Processes at Play in Galaxy Formation</u> <i>Pascale Jablonka (EPFL)</i>
10:30-11:10 a.m.	<i>Coffee Break & Poster Viewing (Cafecon)</i>
<i>Anton Koekemoer</i>	<i>Stellar Populations at High Redshifts - 1</i>
11:10-11:45 a.m.	<u>Modeling the Stellar Populations of High-Redshift Galaxies: Is What You See What You Get?</u> <i>Scott Trager (University of Groningen)</i>
11:45-12:20 p.m.	<u>The Hubble Sequence Beyond $z = 2$</u> <i>Mariska Kriek (Princeton University)</i>
12:20-12:40 p.m.	<u>Stellar Populations of High-Redshift Star-Forming Galaxies Using Rest-Frame Optical and UV Imaging</u> <i>Nicholas Bond (Rutgers University)</i>
12:40-2:00 p.m.	<i>Lunch Break</i>
<i>Eric Gawiser</i>	<i>Stellar Populations at High Redshifts - 2</i>
2:00-2:35 p.m.	<u>Galaxy Building in the First Gyr: The Nature of Galaxies in the Epoch of Reionization</u> <i>Garth Illingworth (University of California, Santa Cruz)</i>
2:35-2:55 p.m.	<u>Luminosity Functions and Photometric Properties of Lyman-Alpha Emitters at $2 < z < 3$</u> <i>Caryl Gronwall (Pennsylvania State University)</i>
2:55-3:25 p.m.	<u>Discussion Chaired By Jason Tumlinson</u>
<i>Massimo Robberto</i>	<i>Closing Session</i>
3:25-3:45 p.m.	<u>Conference Summary</u> <i>Rosie Wyse (Johns Hopkins University)</i>