

## Outstanding Paper Award for Young Scientists 2014

### 40th COSPAR Scientific Assembly Moscow, Russia, 2 - 10 August 2014

COSPAR Scientific Commission A	<p><b>Tamara Bandikova (Germany)</b></p> <p><i>Characteristics and accuracies of the GRACE inter-satellite pointing</i></p> <p>ASR 50/1</p> <p><b>Benjamin S. Schwarz (UK)</b></p> <p>Coastal salinity measurement using a Doppler Radiometer</p> <p>ASR 50/8</p>
COSPAR Scientific Commission B	<p><b>Joseph Paul Cohen (USA)</b></p> <p>Crater detection via genetic search methods to reduce image features</p> <p>In press</p> <p><b>J Flahaut (France)</b></p> <p><i>Identification and characterization of science-rich landing sites for lunar lander missions using integrated remote sensing observations</i></p> <p>ASR 50/12</p>
COSPAR Scientific Commission C	<p><b>Alex T. Chartier (UK)</b></p> <p><i>A 12 year comparison of MIDAS and IRI 2007 ionospheric Total Electron Content</i></p> <p>ASR 49/9</p> <p><b>Hongru Chen (Japan)</b></p> <p>Storm-time atmospheric density modeling using neural networks and its application in orbit propagation</p> <p>ASR 53/3</p>

	<p><b>Liming He (China)</b></p> <p>A nonlinear background removal method for seismo-ionospheric anomaly analysis under a complex solar activity scenario: A case study of the M9.0 Tohoku earthquake</p> <p>ASR 50/2</p> <p><b>Caitano Luiz da Silva (Brazil)</b></p> <p><i>Consequences of the application of the streamer fluid model to the study of the sprite inception mechanism</i></p> <p>ASR 51/10</p> <p><b>Ewa Slominska (Poland)</b></p> <p>Mapping seasonal trends of electron temperature in the topside ionosphere based on DEMETER data</p> <p>ASR 52/1</p>
COSPAR Scientific Commission D	<p><b>R.D. Strauss (South Africa)</b></p> <p><i>Modelling and observing Jovian electron propagation times in the inner heliosphere</i></p> <p>ASR 51/3</p>
COSPAR Scientific Commission E	<p><b>K. Abe (Japan)</b></p> <p><i>Time variations of cosmic-ray helium isotopes with BESS-Polar I</i></p> <p>In press</p> <p><b>Joey Neilsen (USA)</b></p> <p>The case for massive, evolving winds in black hole X-ray binaries</p> <p>ASR 52/4</p> <p><b>Michele Perna (Italy)</b></p> <p><i>Reverberation time lags in the high luminosity quasar PG 1247+267</i></p> <p>In press</p>

<p>COSPAR Scientific Commission F</p>	<p><b>Joanna Deperas-Standylo (Poland)</b></p> <p><i>Production and distribution of aberrations in resting or cycling human lymphocytes following Fe-ion or Cr-ion irradiation: Emphasis on single track effects</i></p> <p>ASR 50/5</p> <p><b>L.F. Hu (China)</b></p> <p><i>Inhibitory effect of simulated microgravity on differentiating preosteoblasts</i></p> <p>ASR 51/1</p>
<p>Technical Panel on Satellite Dynamics (PSD)</p>	<p><b>Andrea Bolle (Italy)</b></p> <p><i>A hybrid, self-adjusting search algorithm for optimal space trajectory design</i></p> <p>ASR 50/4</p> <p><b>Carlos Javier Rodriguez-Solano (Germany)</b></p> <p>Adjustable box-wing model for solar radiation pressure impacting GPS satellites</p> <p>ASR 49/7</p> <p>&amp;</p> <p>Improving the orbits of GPS block IIA satellites during eclipse seasons</p> <p>ASR 52/8</p> <p><b>Aaron J. Rosengren (USA)</b></p> <p><i>Long-term dynamics of high area-to-mass ratio objects in high-Earth orbit</i></p> <p>ASR 52/8</p> <p><b>R. Sun (Netherlands)</b></p> <p><i>Precise line-of-sight vector estimation based on an inter-satellite radio frequency system</i></p> <p>ASR 51/7</p>

<p>Panel on Technical Problems Related to Scientific Ballooning (PSB)</p>	<p><b>Zewei Zheng (China)</b></p> <p>Trajectory tracking control for underactuated stratospheric airship</p> <p>ASR 50/7</p> <p>&amp;</p> <p>Global path following control for underactuated stratospheric airship</p> <p>ASR 52/7</p>
<p>Panel on Potentially Environmentally Detrimental Activities in Space (PEDAS)</p>	<p><b>Charles Hubaux (Belgium)</b></p> <p><i>Influence of Earth's shadowing effects on space debris stability</i></p> <p>ASR 51/1</p>