

# INCOSE SA Gauteng Event of 26 August 2015

## *Dr Attie Jonker on the JS1 Glider – “from concept to competition”*

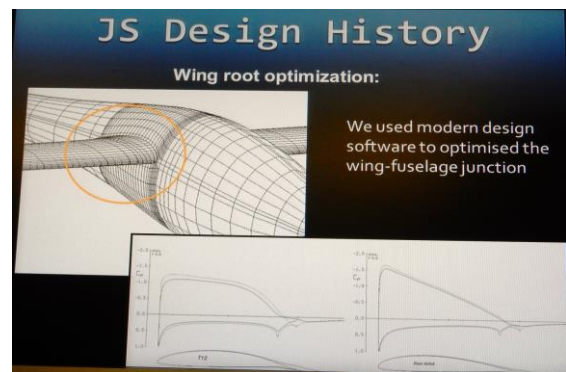
*By Louis Lubbe*



Dr Attie Jonker from the North-West University's Potchefstroom Campus School of Mechanical Engineering shared the history of the JS1 glider with us. It started years ago when he was a little boy and his dad who was a science teacher built a glider in their garage. It started a lifelong quest for him and his brother to design and build the world's best glider, an idea that grew into

designing and building a sailplane that would be competitive at the highest level. This passion and enthusiasm created Jonker Sailplanes and the JS1 Revelation.

Attie Jonker is what I would call the Engineer's Engineer. It was fantastic to share in the engineering process that was followed to design, build and type certify the glider according to international standards. Attie was joined by Johan Bosman, Chief Aerodynamicist at Jonker Sailplanes, who used Computational Fluid Dynamic (CFD) methods to successfully develop and optimise various Aerodynamic facets on the JS1.



The proof of the success of this Engineering masterpiece is in the results of the 18<sup>th</sup> FAI European Gliding Championships in Hungary from 12-25 July 2015 where the JS1 family sailplanes took the top 4 positions in the open class competition.

It was a great night where we once again saw the positive results yielded from rigorous engineering. It was also encouraging to see that South Africa can compete and lead in a technical area.

