



Dedicated to innovation in aerospace

Mr. Nobuo Takeda

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Date:

10 November 2016

Your reference:

Subject:

Nomination of candidates for Jaap Schijve Award

Enclosure: 1

Dear Mr. Takeda,

The Netherlands Aerospace Centre NLR and Delft University of Technology in The Netherlands have established a biennial award for young and talented academics in the field of aeronautical fatigue. It is named after Professor Jaap Schijve and consists of a token and a prize of € 5,000.-. The selection criteria for this award are provided in the Ground Rules that are enclosed.

Traditionally the award is presented during the biennial symposium of the International Committee on Aeronautical Fatigue and Structural Integrity (ICAF). This has been done for the first time in 2009, in Rotterdam, to Dr Michael Shepard for his work on Engineered Residual Stresses. In 2011, in Montreal, the award was presented to Dr René Alderliesten for his work on Fibre Metal Laminates. In 2013, in Jerusalem, the award was presented to Dr Chris Wallbrink for his work on Improved Techniques for Predicting Fatigue Crack Growth. In 2015, in Helsinki, the award was presented to Dr Martin Kadlec for his work on the Damage Tolerance of Composite Structures.

We have now started the process of finding an appropriate candidate for the 2017 award, which will be presented in Nagoya, Japan. If you know of someone who, in your opinion, qualifies for this award, we would like to invite you to nominate him or her. Eligible candidates from any country, worldwide, can submit their resume to Ms. Gemma van der Windt at [G.J.M.vanderWindt@tudelft.nl](mailto:G.J.M.vanderWindt@tudelft.nl) stating "Schijve Award 2017". The application should be accompanied by a letter of recommendation from either you or another acknowledged expert in the field of aeronautical fatigue, preferably the supervising professor.

The deadline for submission is 15 February 2017.

Yours sincerely,

Marcel Bos  
Secretary of the Selection Committee

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## **The Jaap Schijve Award for Young Researchers who have made an Outstanding Contribution to Scientific Progress in Fatigue and Damage Tolerance as Applied to Aerospace**

### *Ground Rules*

The Jaap Schijve award has been established and is sponsored by the Netherlands Aerospace Centre NLR and Delft University of Technology. It is to be bestowed upon a young researcher who has made an outstanding contribution to scientific progress in structural fatigue and damage tolerance as applied to aerospace.

Researchers from any country, worldwide, are eligible for the award. Selection for the award is based on technical contributions to advancement of the field of aeronautical fatigue that have been made by the recipient, who should be at an early stage of their career -- preferably within 10 years of entering the field and/or below the age of 35. The recipient must have earned an MSc or PhD degree in engineering or a related field. He/she should have published at least two articles in peer reviewed scientific journals.

The award winner will be selected by a committee consisting of the General Director of the NLR, the Dean of the Aerospace Department of Delft University, and three experts in the field of fatigue and damage tolerance: one from the Aerospace Department of Delft University, one from the Aerospace Vehicles Division of the NLR and an international expert. The award will be awarded biennially, i.e. every other year.

The main selection criteria used by the committee are:

- high scientific quality of the contributions,
- relevance of these scientific contributions to fatigue and damage tolerance,
- general quality of publications in peer reviewed journal articles,
- impact on aerospace engineering.

The award consists of a token and a prize of € 5000.

### *Definitions*

*Fatigue* in metals, composites or hybrids is the phenomenon or mechanism by which fluctuating (service) loads induce permanent structural changes and, eventually, damage that might lead to failure at a certain moment in life at stress levels below the monotonic failure stress.

*Damage Tolerance* is the ability of a structure to sustain anticipated loads in the presence of fatigue, corrosion or accidental damage until such damage is detected through inspections or malfunctions and is repaired.

