

## GoR – Structures and Materials

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### 52<sup>nd</sup> Meeting to be held at CIRA, Capua – Italy on 21/22 April 2005

21 April 13.30 a.m.

#### 1 Opening remarks and adoption of Agenda

#### 2 Summary Records 51st GoR meeting

#### 3 Action Items

Action Item	Responsibility	Action
51.1	Tasadduq Khan	Try to contact Dassault for a new IPoC.
51.2	Harold Ottens	Transfer the GARTEUR website to NLR. The website should then be available in 1-2 months.
51.3	Paul Curtis	To find out more about the members in the international birdstrike group (Europe + US?)
51.4	Paul Curtis	Check materials manufacturers. He will circulate the final proposal.
51.5	All	All GoR members should inform each other on a regular basis about developments on nanotubes.
51.6	Jonathan Dee	Will give a presentation on nanotubes at the next GoR meeting.
51.7	Harold Ottens	To check with Flight Mechanics Panel chairman on 'Morphing wing' program and send information to Khan.
51.8	Sören Nilsson	Prepare a short presentation on shape control actuators for the next GoR meeting.
51.9	Harold Ottens	Check for SM-AG 29 if signed papers of SAAB have been received.
51.10	Harold Ottens	Send basic GARTEUR documents to Dr. Schröder.
51.11	Rien van Houten	Put SM-AG 25 report on the GARTEUR website.
51.12	Paul Curtis	Check whether letters of Adherence for SM-AG 29 have been received.
51.13	Harold Ottens	Sent copy of letter of Adherence for SM-AG 29 from INTA to Paul Curtis
51.14	Paul Curtis	Contact ONERA for possible interaction in SM-AG 29.
51.15	Harold Ottens	Finalise proposal for SM-EG28, Material properties During Curing.
51.16	Harold Ottens	Inform GoR about what is going on in the ERA-Net.
51.17	Aniello Riccio	Make one page description of new activity on delamination growth.
51.18	Tasadduq Khan	Make one page description of new activity on smart actuators.
51.19	Hans Ansell	Make one page description of new activity on high speed machined parts.
51.20	Paul Curtis	Prepare a short presentation on methods for mass estimation.
51.21	Paul Curtis	Prepare a short presentation on thru-thickness properties due to stitching.
51.22	Paul Curtis	Prepare a short presentation on high temperature composite applications.

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### 4 Progress reports and status on current AG's

AG 27 *Fractographic Aspects of Fatigue Failure in Complex Composites*

P. Curtis

AG 28 *Impact Damage and Repair of Composite Structures*

K. Rohwer

AG 29 *Interchangeability composite material*

P. Curtis

Check letters of acceptance and letters of adherence per participants.

### 5 Progress reports on current EG's

EG 28 *Material Properties during curing*

H.H. Ottens

EG 29 *Birdstrike 2*

P. Curtis

### 6 Possible new activities, preparation pre-proposal (A4-format)

1. *Delamination growth*

A. Riccio

2. *Smart actuators*

T. Khan

3. *Structural integrity high speed machined parts*

H. Ansell

### 7 Technology watch and new ideas

### 8 Presentations

- Jonathan Dee: nanotubes (AI 51.6)
- Sören Nilsson: shape control actuators (AI 51.8)
- Paul Curtis:
  - methods for mass estimation (AI 51.20)
  - thru-thickness properties due to stitching (AI 51.21)
  - high temperature composite applications (AI 51.22)

### 9 New chairmanship

2006-2007 chairmanship Spain

### 10 Report from Council Meeting, 9 and 10 March in Madrid

H.H. Ottens

### 11 ERA-NET : Air NT and GARTEUR

H.H. Ottens

### 12 Website update

### 13 Any other business

### 14 Date and place of next meeting:

53<sup>rd</sup> meeting: 20/21 October 2005 in France

54<sup>th</sup> meeting: Spring 2006 in Spain

### 15 Closure of the meeting