

VAFTEM WORKSHOP:

TESTING PROCEDURES AND STANDARDS FOR HIGH PERFORMANCE FIBRES

Introduction to the VAFTEM programme

M.Bourgeon,

SNECMA, France

CHARACTERISATION OF SINGLE FIBRES

Testing equipment for single fibres

A.Piant & A.R.Bunsell EMP France

Room temperature testing

Preparation for single fibre tests

Determination of fibre cross section (optical techniques, image analysis, laser diffraction, SEM, etc)

Ph.Gomez

CEAT, Toulouse, France

Measurement of strain : direct and indirect techniques

K.Kromp IMP Austria

Elastic modulus determination :

Compliance technique

A.Piant & A.R.Bunsell EMP France

High temperature Testing of single fibres

High temperature testing equipment for SiC and oxide fibres

Determination of temperature profile in furnace

Strain determination at high temperature

A.Piant & A.R.Bunsell EMP France

High temperature testing of carbon fibres

J.Lamon University of Bordeaux, France

CHARACTERISATION OF FIBRE BUNDLES

Preparation for fibre bundle tests

Specimen preparation for tests

Determination of numbers of intact fibres in a bundle

Measurement of strain :Evaluation of fibre-strength statistical-distribution by bundle tensile tests."

*M. R'MILI & P. REYNAUD - GEMPPM, INSA de Lyon , France,
K.Kromp IMP, Austria*

Measurement of Young's modulus

Direct time of flight technique

V.Kostopoulos & Th.Loutas U.of Patras,Greece

High Temperature Testing of Fibre Bundles

High temperature testing of bundles

Ph.Gomez, CEAT, Toulouse, France

K.Kromp IMP, Austria

Statistical analysis of bundle failure

L.Guerra, U. of Lisbon, Portugal

Or **P.Haëner**, JRC Petten, Holland

CONCLUSIONS

A.Piant & A.R.Bunsell EMP France