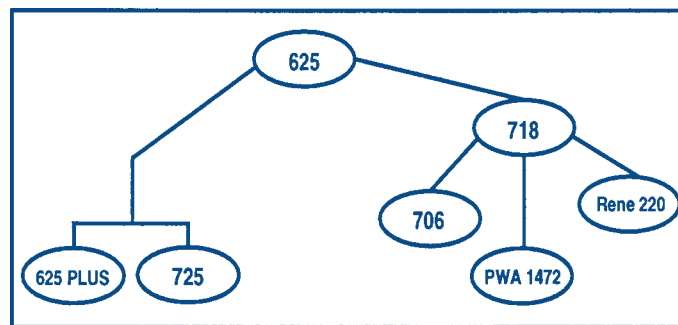


Fifth International Special Emphasis Symposium on

Superalloys 718, 625, 706, and Derivatives

*Embassy Suites Pittsburgh International Airport Hotel
Pittsburgh, Pennsylvania
June 17–20, 2001*



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PRELIMINARY SCHEDULE OF EVENTS

Sunday, June 17, 2001

Registration	1:00 am – 7:00 pm
Welcoming Reception	6:00 pm – 7:00 pm
Introductory Overviews	7:00 pm – 10:00 pm

Monday, June 18, 2001

Registration	7:00 am – 5:00 pm
Slide Preview	7:00 am – 5:00 pm
Authors' Coffee	7:15 am – 8:15 am
Sessions	8:00 am – 5:00 pm
Luncheon	12:00 pm – 1:00 pm

Tuesday, June 19, 2001

Registration	7:00 am – 5:00 pm
Slide Preview	7:00 am – 5:00 pm
Authors' Coffee	7:15 am – 8:15 am
Sessions	8:00 am – 5:00 pm
Luncheon	12:00 pm – 1:00 pm

Wednesday, June 20, 2001

Registration	7:00 am – 11:00 pm
Slide Preview	7:00 am – 1:00 pm
Authors' Coffee	7:15 am – 8:15 am
Sessions	8:00 am – 5:00 pm
Luncheon	12:00 pm – 1:00 pm

GENERAL INFORMATION

This is the premier symposium devoted exclusively to superalloys 718, 625, and 706. It follows in the tradition of the four previous meetings that were very successful in providing the state-of-knowledge on these most important superalloys. The four published volumes are acknowledged as the single-source reference on the progress and problems from 1989 to 1997, and it is expected that this millennium event will continue the tradition.

Superalloys 718, 625, 706, and Derivatives will take place over the dates of June 17-20, 2001, in Pittsburgh, Pennsylvania. The headquarters hotel hosting this prestigious symposium will be the Embassy Suites Hotel.

ORGANIZING COMMITTEE

E.A. Loria, General Meeting Chairperson
Keh-Minn Chang, West Virginia Univ
J-Y. Guedou, SNECMA, France
L.A. Jackman, Allegheny-Teledyne Allvac
R.L. Kennedy, Allegheny-Teledyne Allvac
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J.J. Schirra, Pratt & Whitney Aircraft
P.W. Schilke, GE Power Generation
J.J. Valencia, Concurrent Technologies
Xishan Xia, UST-Beijing, China

INVITED SPEAKERS

Introductory Overview, Sunday, June 17, 2001

Application of Alloys 718 in GE Aircraft Engines – Today and Next Five Years

R.E. Schafrik, General Manager, Motor & Process Engineering, GE Aircraft Engines

Alloy 706 Use, Process Optimization, and Future Direction for GE Gas Turbine Rotor Materials

P.W. Schilke, Manager, M&PE, General Electric Power Systems

Invited Papers, Monday AM, June 18, 2001

Usage of Alloys 718 in Present Pratt & Whitney Aircraft Engines
D.F. Paulonis, Manager, Process Engrg, Pratt & Whitney Aircraft

Application of 718 and 725 in Oil and Gas Industry

R.B. Bhavsar, Director of Materials/Welding, Schlumberger

Alloy 625 Impressive Past/Significant Presence/Awesome Future
G.D. Smith and L.J. Patel, Special Metals

Precipitation and Solidification in 718

Alec Mitchell, University of British Columbia

Large Diameter Alloy 718 Ingots for Land Based Gas Turbines

S.V. Thamboo, GE Power Systems and L. Jackman, Allvac

ADVANCE REGISTRATION

Superalloys 718, 625, 706, and Derivatives attendees, including authors, presenters, and session chairs are required to register. To receive the discounted advance registration fee, please complete the Advance Registration Form in this mailer and return it by Monday, June 4, 2001 to:

TMS Meeting Services
184 Thorn Hill Road
Warrendale, PA 15086, USA
Phone: 724-776-9000 ext. 243
Fax: 724-776-3770
E-mail: mtgserv@tms.org

Registration Fees are as follows:

Advance Member	\$475
On-Site Member	\$575
Advance Non-Member	\$525
On-Site Non-Member	\$625
Advance Student	\$150
On-Site Student	\$200

You may register now any time, day or night. The Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives home page on the World Wide Web is at <http://www.tms.org/Meetings/Specialty/718-01/718-01-Home.html>. TMS OnLine also provides detailed information on this and all TMS-sponsored conferences.

Full payment in US dollars must accompany the completed registration from. Register by Monday, June 4, 2001, and receive the advance registration discount from the on-site registration fee.

Full Conference Registration includes the Welcoming Reception, coffee breaks, conference luncheons, access to the technical sessions, and a copy of the proceedings. Badges must be worn to gain access to the technical sessions and social functions.

REFUND POLICY

Written requests must be sent to TMS Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086, USA. No cancellations will be accepted after Monday, June 4, 2001. A \$50 processing fee will be charged for all cancellations.

SOCIAL EVENTS

Various social functions have been planned to supplement the formal technical program, including the following:

Sunday, June 17, 2001	Welcoming Reception
Monday, June 18, 2001	Luncheon
Tuesday, June 19, 2001	Luncheon
Wednesday, June 20, 2001	Luncheon

These functions are included in the member and non-member full-conference registration fee. Student registration includes a Welcoming Reception ticket, however, luncheon tickets must be purchased separately. Tickets for accompanying persons and students may be purchased separately on the registration form.

ACCOMMODATIONS

The headquarters hotel and site for the Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives is the Embassy Suites Hotel in Pittsburgh, Pennsylvania, USA. All technical and social activities will take place at the hotel. The Embassy Suites Hotel is a first class hotel only minutes away from the Pittsburgh International Airport. The hotel will provide courtesy pick-up to and from the airport via its courtesy phone at the airport, 6:00 am – 12:00 midnight. Also, a complimentary full course, cooked-to-order, breakfast, and a complimentary two-hour manager's reception will be provided each day. The hotel has an indoor pool, outdoor heated whirlpool, sauna, and fitness center. It also has a restaurant, quiet bar, high-energy lounge, and suite service. As in prior symposia, three luncheons plus the symposium proceedings will be included with the full conference registration fee.

Participants should mail or fax their housing form, located in this mailer, as early as possible to the Pittsburgh Embassy Suites Hotel. The housing cut-off date is Monday, May 28, 2001. After Monday, May 28, 2001, the conference rate and availability of the suites at the Pittsburgh Embassy Suites may not be available.

Mail or fax your housing reservation form to:

Embassy Suites Hotel
550 Cherrington Parkway
Coraopolis, PA 15108 USA
Fax: 412-262-4119

COMPLIMENTARY SHUTTLE BUS

Complimentary shuttle service is available from the Pittsburgh International Airport to the Embassy Suites Hotel. Upon arrival to the airport, proceed to the baggage claim area. Use the hotel telephone banks and push the button for the Embassy Suites Hotel. The shuttle will operate 6:00 am - 12 midnight.

DIRECTIONS TO THE HOTEL

FROM PITTSBURGH INTERNATIONAL AIRPORT

When exiting the airport, follow Route 60 South (Pittsburgh Exit) to Exit 3 (Moon/Business Route 60 North). Take the Coraopolis/Sewickly Exit. Bear right off the exit. The hotel will be directly in front of you in Cherrington Corporate Center.

FROM DOWNTOWN

Take the Fort Pitt Tunnels to I-279 South. Follow I-279 South (also Rout 60 North) approximately 10 miles to exit 3 (Business Route 60 North/Moon). Take the Coraopolis/Sewickly exit and bear right. The hotel is directly ahead in the Cherrington Corporate Center.

FROM THE TURNPIKE (EXIT 3 WARRENDALE FROM OHIO)

Follow I-79 South to Route 65 Sewickly exit. Follow Route 65 to Sewickly, turn left onto the Sewickly Bridge. At the end of the bridge, turn left onto Route 51. At the second light, turn right onto Thorn Run Road. Follow this road 4-5 miles, going through 1 light then 2 stop signs until you enter Cherrington Corporate Center. The hotel is directly ahead.

FROM THE TURNPIKE (EXIT 6 MONROEVILLE FROM PHILIDELPHIA)

Take I-376 West to Pittsburgh. Go though the Fort Pitt Tunnels to I-279 South. Continue by using directions above "From Downtown".

CONFERENCE PROCEEDINGS PUBLICATION

All papers presented at the Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives will be printed in a proceeding.

A proceedings volume that contains both the papers from oral presentations and the poster presentations made during the symposium is planned to be published and available at the conference. A copy of the proceedings is included with the registration fee for full conference registrants.

Additional copies of the conference proceedings will be available for purchase at the meeting. Additional copies may also be ordered in advance on the registration form (see page 5).

(Note: The student registration fee does not include a copy of the proceedings. Authors must attend the meeting and present their paper(s) to receive a copy of the proceedings or they may purchase it after the conference.)

AUTHORS' COFFEE

Authors' Coffee will be held each morning for authors, chairs, and organizers. Authors are asked to attend the authors' coffee only on the morning of their presentation. The authors' coffee will run from 7:15 am to 8:15 am in the Davidson Room of the Embassy Suites Hotel on Monday, Tuesday, and Wednesday.

INFORMATION

For more information on the technical aspects of Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives, please contact the committee chair:

Mr. Edward A. Loria
Alloys 718-625-706 Conference
1828 Taper Dr
Pittsburgh, PA 15241, USA
Phone: 412-221-5905
Fax: 412-221-7355

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AMERICANS WITH DISABILITIES ACT

TMS strongly supports the federal Americans with Disabilities Act (ADA) that prohibits discrimination against, and promotes public accessibility for those with disabilities. In support of this act, we ask those attendees requiring specific equipment or services to contact the TMS Meeting Services Department to advise specific needs in advance.

DESTINATION HIGHLIGHTS

Situated between wooded hillsides at the point where the Allegheny and Monongahela Rivers converge to form the Ohio River, Pittsburgh is one of America's most scenic cities. With average daily high temperatures of 80 degrees, June is a very pleasant time to visit Pittsburgh.

While in Pittsburgh, you will want to take an incline ride up Mt. Washington, but inclines are not the only mode of travel in or to the city. Pittsburgh is a very accessible city. The convenient subway, light rail, and bus systems enable any destination within the city to be about a half-hour ride. Easy entrance to a network of interstate highways (East-West: I-70, I-76, I-80, I-376; North South: I-79, I-579, I-279) puts Pittsburgh within a day's drive of most Eastern US cities, and the Pittsburgh International Airport has made the city conveniently accessible from anywhere in the world.

Attendees can easily take advantage of the many entertainment, cultural, and dining opportunities the city has to offer. The "Strip District" is a smorgasbord of dining and entertainment option. The Carnegie Science Center has been called "The Amusement Park for the Mind". The city is rich in cultural activities and is home to hundreds of performing arts groups. And don't forget Pittsburgh sports, with major league championship teams like Pirates baseball, there is always a big game in town.

Visit the city of Pittsburgh on-line at <http://www.pittsburgh-cvb.org>.



NOTES

Fifth International Special Emphasis Symposium on

Superalloys 718, 625, 706, and Derivatives

June 17-20, 2001 • Pittsburgh, Pennsylvania

ADVANCE REGISTRATION FORM

PLEASE CHOOSE ONLY ONE OPTION FOR SENDING FORM

WEB	Take advantage of the convenience of on-line pre-registration via the TMS website: http://www.tms.org Web registration requires credit card payment.	FAX	Fax this form to TMS Meeting Services USA (724) 776-3770 Fax registration requires credit card payment.	MAIL	Return this form with payment to Meeting Services TMS 184 Thorn Hill Road Warrendale, PA 15086
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Advance Registration Deadline: June 4, 2001 PAYMENT MUST ACCOMPANY FORM. Forms received past this date will be processed at the on-site fee structure. Instructions: Check your selections, and fill in the necessary information. Please print or type.

Dr. Prof. Mr. Mrs. Ms. This address is: Business Home New Address Address Correction

First Name: _____ Middle Initial: _____ Surname: _____

Employer: _____

Address: _____

City: _____ State/Province: _____

Zip/Postal Code: _____ Country: _____

Telephone: _____ Fax: _____

E-Mail Address: _____ Accompanying Person Name for Badge: _____

Registration Fees:

	Advance fees to June 4	On-Site fees after June 4
<input type="checkbox"/> Member *	\$475	\$575
<input type="checkbox"/> Non-Member *	\$525	\$625
<input type="checkbox"/> Student **	\$150	\$200

* Includes technical sessions, coffee breaks, welcoming reception, conference luncheons, and proceedings.

** Includes technical sessions, coffee breaks, and welcoming reception.

Social Function Tickets:

Additional Tickets for Students/Spouses	Fee	Number	\$ Total
<input type="checkbox"/> Welcoming Reception Sunday, June 17, 2001	\$25	<input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> Monday Luncheon Monday, June 18, 2001	\$30	<input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> Tuesday Luncheon Tuesday, June 19, 2001	\$30	<input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> Wednesday Luncheon Wednesday, June 20, 2001	\$30	<input type="text"/>	\$ <input type="text"/>

Dietary Restrictions: Vegetarian (V) Kosher (K)
 Diabetic (D)

Additional Proceedings Books:

<input type="checkbox"/> Superalloys 718, 625, 706 and Derivatives	\$90	<input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> Shipping (U.S.)	\$10 ea.	<input type="text"/>	\$ <input type="text"/>
<input type="checkbox"/> Shipping (elsewhere)	\$20 ea.	<input type="text"/>	\$ <input type="text"/>

Total Fees:	REGISTRATION FEES	\$ <input type="text"/>
	SOCIAL FUNCTION TICKETS	\$ <input type="text"/>
	TOTAL PAYMENT	\$ <input type="text"/>

Payment Options:

Check payable to TMS. Payment should be made in US dollars drawn on a US bank or via the following.

VISA MasterCard Diners Club American Express

Card Number _____ Exp. _____

Cardholder Name (print) _____

Signature _____

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EMBASSY SUITES

PITTSBURGH INTERNATIONAL AIRPORT

Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives

PLEASE COMPLETE THE HOUSING FORM BELOW AND RETURN TO:

550 Cherrington Parkway
Coraopolis, PA 15108
Phone: 412-269-9070 Toll Free: 1-800-362-2779
Fax: 412-262-4119

I Plan to Arrive: _____ I Plan to Depart: _____

Please Check:

Standard Room Single/Double - \$119

Room Tax - 14%

ALL RESERVATION REQUESTS MUST BE GUARANTEED BY THE FIRST NIGHT'S ROOM AND TAX BY PERSONAL CHECK OR CREDIT CARD. CANCELLATIONS MUST BE MADE TWENTY-FOUR (24) HOURS PRIOR TO ARRIVAL TO AVOID FIRST NIGHT'S BILLING. CREDIT CARDS WILL AUTOMATICALLY BE CHARGED.

All reservations must be received by: **Monday, May 28, 2001**

Requests prior to and after convention dates will be accepted on a space available basis only. Symposium rate applies three days prior and three days following official meeting date based on availability. (One card per room)

Name: _____

Company: _____

Address: _____

City: _____ State/Province: _____

Zip/Postal Code: _____ Country: _____

Telephone: _____ Fax: _____

Specific Requests: _____
(Requests Subjects to Availability)

ADA Specific Requirements: _____

Payment Enclosed: CHECK CREDIT CARD

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Diners Club Discover Card

(If paying by check, please make payable to Embassy Suites.)

Card Number _____

Exp. _____

Cardholder Name (print) _____

Signature _____

PLEASE NOTE:

CHECK-IN TIME IS 3:00PM • CHECK-OUT TIME IS 12 NOON

TMS

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TMS also publishes *Journal of Electronic Materials* and *Metallurgical and Materials Transactions A and B*, numerous conference proceedings volumes, software, textbooks, and videos designed to give materials scientists and engineers the latest information on scientific and applied advances. Visit <<http://doc.tms.org>> for up-to-date TMS publications information.

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TMS is dedicated to the education of the materials science and engineering professional, as well as to cultivating an interest in the field by young people.

For the practicing professional, TMS and its five technical divisions sponsor continuing education courses, primarily technical but also nontechnical, to promote the education and development of current and future professionals.

For student members, TMS participates on both the Accreditation Board for Engineering & Technology (ABET) and the National Council of Examiners for Engineering and Surveying (NCEES) to help maintain the highest possible standards in the accreditation of metals and materials programs in academia and in the registration of professional engineers.

If you plan to register for the Fifth International Special Emphasis Symposium on Superalloys 718, 625, 706, and Derivatives, you are encouraged to become a TMS member and get involved in the activities of the Structural Materials Division. You will have the opportunity to shape these activities and receive a complimentary subscription to JOM, and also receive deeply discounted, members-only pricing on meeting attendance, publication purchases, and short course participation. You will receive unrestricted access to the Internet-based TMS Membership Directory, giving you the opportunity to maximize your networking opportunities.

If you are interested in becoming a member, please fill out the print application on the reverse side or, contact Anne Bartholomay via phone at (724) 776-9000, ext. 221 or via email at abartholomay@tms.org for more information.

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Mr. Mrs. Ms.
 Dr. Professor

SEND MAIL TO:

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MONTH DAY YEAR

WHAT IS THE PRIMARY ACTIVITY OF YOUR PLACE OF EMPLOYMENT? (check one)

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 Government/Nonprofit Laboratory Primary Metals Producer Engineering or Consulting Firm
 Engineered Materials Producer Secondary Metals Producer
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WHAT BEST DESCRIBES YOUR PRIMARY JOB FUNCTION? (check one)

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Name of School	Dates Attended Month/Year–Month/Year	Major Subject/ Engineering Field	Degree Received or Expected Graduation Date: Month/Year
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M.S. <input type="checkbox"/>			
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REGISTERED PROFESSIONAL ENGINEER? Yes No STATE: _____ YEAR OF REGISTRATION: _____

RECORD OF EXPERIENCE:

(List most recent record of employment. If you do not possess a qualifying degree, please include your last seven years of experience.)

From: _____ Title: _____
 Company: _____
 To: _____ Nature of Company's Business: _____
 Total Time with Company: _____
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If you have been encouraged to submit this application by a current member of TMS, please complete the following information:

Member's Name _____ Member # _____

I agree, if elected, to accept election, and to abide by the TMS bylaws.

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Cardholders Name _____

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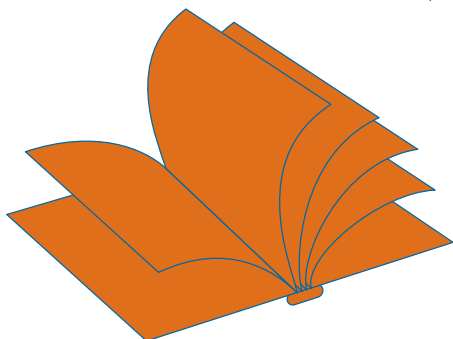
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M.V. Nathal, R. Darolia, C.T. Liu, P.L. Martin, D.B. Miracle, R. Wagner, and M. Yamaguchi, editors

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