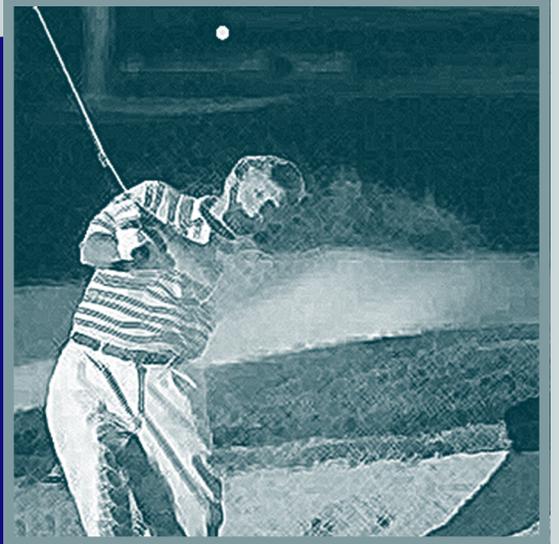


Materials & Science IN S.P.O.R.T.S

**Coronado
Island
Marriott
Resort**

**Coronado, California
April 22-25, 2001**

TMS



PRELIMINARY CALENDAR OF EVENTS

Materials & Science in Sports Coronado Island Marriott Resort Coronado, California April 22–25, 2001

SUNDAY, APRIL 22, 2001

Registration	12:00 pm–6:00 pm
Welcoming Reception	6:00 pm–7:30 pm

MONDAY, APRIL 23, 2001

Registration	7:00 am–5:00 pm
Slide Preview	7:00 am–5:00 pm
Authors' Coffee	7:15 am–8:15 am
Technical Programming	8:30 am–5:00 pm
AM Break	10:00 am–10:15 am
Exhibition Hours	10:00 am–4:00 pm
Lunch - On Own	12:00 pm–1:00 pm
PM Break	3:00 pm–3:15 pm

TUESDAY, APRIL 24, 2001

Registration	7:00 am–5:00 pm
Slide Preview	7:00 am–5:00 pm
Authors' Coffee	7:15 am–8:15 am
Technical Programming	8:30 am–5:00 pm
AM Break	10:00 am–10:15 am
Exhibition Hours	10:00 am–4:00 pm
Lunch - On Own	12:00 pm–1:00 pm
PM Break	3:00 pm–3:15 pm
Conference Banquet	6:00 pm–9:30 pm

WEDNESDAY, APRIL 25, 2001

Registration	7:00 am–10:00 am
Slide Preview	7:00 am–5:00 pm
Authors' Coffee	7:15 am–8:15 am
Exhibition Hours	8:00 am–1:00 pm
Technical Programming	8:30 am–5:00 pm
AM Break	10:00 am–10:15 am
Lunch - On Own	12:00 pm–1:00 pm
PM Break	3:00 pm–3:15 pm

Scope & Topics:

Materials & Science in Sports is organized to bring together those interested in technical aspects of sports. Themes may include design, materials, mechanics, dynamics, and biomechanics. All aspects of science applied to sports will be welcome, particularly those relating to advances in equipment and improvements in athletic performance.

The conference will cover all sports and leisure pastimes such as golf, tennis, cricket, baseball, soccer, sailing, hockey and athletics.

The conference will be of interest to those working in engineering, physics, sport science, and physical education departments around the world.

The Materials & Science in Sports Conference will take place at The Coronado Island Marriott Resort, which is located on sixteen waterfront acres on Coronado Island just over the Coronado Bay Bridge from San Diego and adjacent to Tidelands Park. Coronado is a warmly elegant and picturesque community with unusual shops, art galleries, delightful restaurants and one-of-a-kind boutiques.

Advance Registration:

Take advantage of the discounted advance registration fees. Complete the Advance Registration form in this mailer and return it 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

Advance registration forms must be returned to TMS by
Monday, April 2, 2001
to receive the discounted advance registration fee.

You may now register any time, day or night, via the Materials & Science in Sports Home Page on the World Wide Web at <http://www.tms.org/Meetings/Specialty/Sports01/Sports01.html>. TMS OnLine also provides detailed information on this and all TMS-sponsored conferences.

Full Payment in US dollars must accompany the completed Advance Registration form. Register by Monday, April 2, 2001, and receive the advance registration discount. Advance registration can save you up to \$100 over the on-site registration fee.

On-site Conference Registration hours:

Sunday, April 22, 2001 12:00 pm–6:00 pm
Monday, April 23, 2001 7:00 am–5:00 pm
Tuesday, April 24, 2001 7:00 am–5:00 pm
Wednesday, April 25, 2001 7:00 am–10:00 am

The **main registration** fee includes the Welcoming Reception, coffee breaks, conference banquet, access to the technical sessions and a copy of the proceedings.

The **student registration** fee includes coffee breaks and access to the technical sessions only.

All attendees of The Materials & Science in Sports Conference, including authors and session chairs, are required to register.

Badges must be worn at all times to gain access to the technical sessions and the social functions.

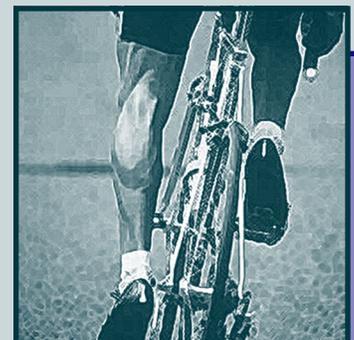
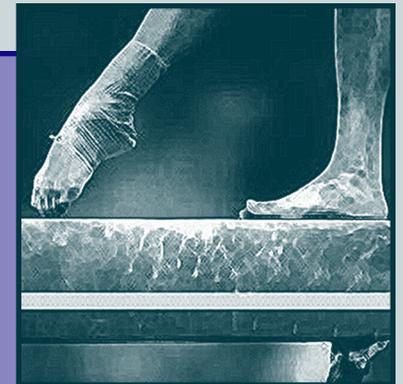
Organizing Committee:

General Chairmen:

Francis H. (Sam) Froes
Steve Haake

Technical Program Committee:

Bruce Clemens
Donna Dawson
Bill Harrigan
Mont Hubbard
Mike Jenkins
Rob Leholm
Marc Meyers
Vladimir Moxon
George Pratt
Bill Richardson
Chet Shira
Mark Timko
Sadayuki Ujihashi
Jim Withers



Refund Policy:

Written requests must be sent to TMS Meeting Services, 184 Thorn Hill Road, Warrendale, PA 15086. No refunds will be issued after April 2, 2001. A \$50 processing fee will be charged on all cancellations.

Exhibition:

An exhibition is being organized to compliment the technical symposium. The exhibition will provide participating companies an opportunity to participate in this international forum to share innovations and products related to these technologies.

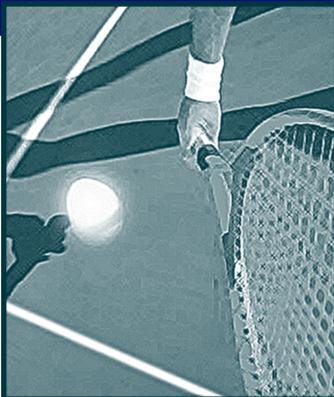
The exhibition will be scheduled to compliment the technical session schedule, with the coffee breaks being conducted in the exhibition area.

To reserve space for the exhibition, complete and return the attached response form. To allow sufficient time for advance planning and promotion, prospective exhibitors are encouraged to reply no later than March 23, 2001.

For more information or to reserve space for the event, contact:

Cindy A. Wilson,
Sales Coordinator
TMS
184 Thorn Hill Road
Warrendale, PA 15086
Telephone: 724-776-9000, ext 231
Fax: 724-776-3770
E-mail: wilson@tms.org

Or visit the Materials & Science in Sports page on the TMS website at: <http://www.tms.org/Meetings/Specialty/Sports01/Sports01.html>



Letters of Invitation:

The Materials & Science in Sports Organizing Committee will issue letters of invitation to individuals requiring such a document. Such letters though, do not commit The Materials & Science in Sports Organizing Committee to providing financial support. Fax, E-mail or mail your request for a letter of invitation to:

Michael Packard, CMP
Manager of Meeting Services
TMS
184 Thorn Hill Road
Warrendale, PA 15086, USA
Fax: 724-776-3770
E-mail: packard@tms.org

Social Functions:

Sunday, April 22, 2001

Welcoming Reception
6:00 pm–7:30 pm

Tuesday, April 24, 2001

Conference Banquet
6:00 pm–9:30 pm

Accommodations:

The headquarter hotel and site of The Materials & Science in Sports is the Coronado Island Marriott Resort, Coronado, California, USA, and is located on sixteen waterfront acres on Coronado Island just over the Coronado Bay Bridge from San Diego and adjacent to Tidelands Park. Coronado is a warmly elegant and picturesque community with unusual shops, art galleries, delightful restaurants and one-of-a-kind boutiques.

An important component of The Materials & Science in Sports is the opportunity to meet with representatives of the industry from all over the globe. In this respect, the conference venue at the Coronado Island Marriott Resort will provide excellent opportunities for networking and discussions with colleagues and associates.

Participants should fax or mail their conference housing form, which is located in this mailer, as early as possible to the Coronado Island Marriott. The housing cut-off is **Friday, March 30, 2001**. After **March 30, 2001**, the conference rate and availability at the Coronado Island Marriott Resort may not be available.

Coronado Island Marriott Resort guests can achieve a perfect balance between relaxation and rejuvenation. The 300 guest rooms and 35 suites are oversized, and provide mindful amenities and comforts. Recreation abounds on numerous nearby golf courses. On-site at the resort are 3 outdoor pools, lighted tennis courts and a full-service health club and European spa. Guests can enjoy dinner in the Coronado Island Marriott Resort's award-winning French restaurant, in addition to a brasserie-style restaurant serving breakfast, lunch and dinner.

Local attractions include Balboa Park museums and attractions, downtown San Diego and La Jolla, Old Ferry Landing, Old Town State Park, San Diego Zoo and Sea World, Seaport Village and Tijuana, Mexico.

Hertz Rent-a-car System:

Has been selected as the official car rental company for The Materials and Science in Sports, April 22-25, 2001, Coronado, California, USA.

Meeting rates listed below, with free unlimited mileage, are guaranteed one week before, through one week after, the actual meeting dates and are subject to car availability. Rates are available from all Vancouver locations.

Advance reservations may be made by calling the Hertz Reservations number (US: 1-800-654-2240; Canada: 1-800-263-0600; International: contact your local Hertz reservation center) and identify yourself as an attendee of The Materials and Science in Sports and reference the CV number which follows:

You must give the reservations agent the Hertz CV #010P0013

Terms and Conditions:

- UNLIMITED MILEAGE ALLOWANCE ON ALL RATES.
- One-way service fee will apply when cars are not returned to renting location.
- Additional daily charges for optional coverages (Loss Damage Waiver, Effect Protection, refueling and state tax) are not included in the rates.
- Drivers must meet standard Hertz age, driver and credit requirements.
- Hertz is a frequent flyer partner with US Airways, Delta, Northwest, United and American Airlines. Frequent flyer information may be requested at time of car booking.

Rates

<u>Car Class</u>	<u>Daily Per Day</u>	<u>Weekend Per Day</u>	<u>Weekly 5-7 Days</u>
A Economy 2DR	\$34.99	\$21.99	\$139.99
B Compact 4DR	\$39.99	\$25.99	\$159.99
C Midsize 2/4DR	\$42.99	\$27.99	\$174.99
D Sporty 2DR	\$45.99	\$32.99	\$189.99
F Fullsize 4DR	\$49.99	\$34.99	\$204.99
I Luxury	\$65.99	\$62.99	\$284.99
L 4Wheel Drive	\$65.99	\$62.99	\$284.99
T Premium 4WD SU	\$70.99	\$67.99	\$334.99
N Premium 4WD SU X-CAP	\$75.99	\$72.99	\$384.99
R Minivan	\$65.99	\$62.99	\$284.99

Car Classes T & N are not available from all locations. Standard rental and credit qualifications apply. Taxes, vehicle licensing fees/tax reimbursement, transportation fee, transaction fee, city fees and optional items, such as refueling, are extra. At some locations, an airport access fee of up to 10% may apply, but usually only if you choose to exit on our bus. At many airports and hotels, a 5% - 12.75% airport/hotel concession fee recovery applies on car rental.



U·S AIRWAYS

**... Official Carrier
for the
Materials &
Science in Sports
Conference**

Special Airfare

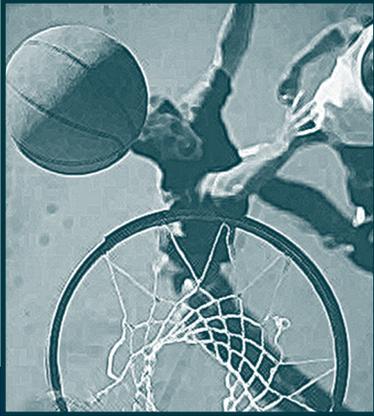
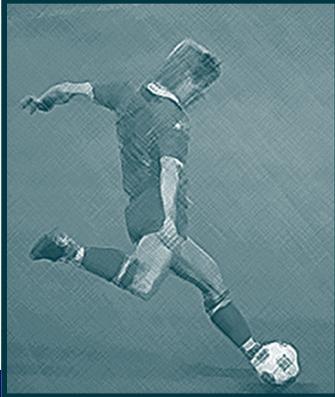
US Airways has been designated as the official carrier for the attendees of the Materials & Science in Sports Conference, April 22-25, 2001 in Coronado, California, and agrees to offer exclusive low fares for the attendees.

This special fare will offer a 7% discount off First or Envoy Class and any published US Airways promotional round trip fare. A 12% discount off unrestricted coach fares will apply with seven day advance reservation and ticketing required. Plan ahead and receive an additional discount by ticketing 60 days or more prior to departure. These discounts are valid provided all rules and restrictions are met and are applicable for travel from all points on US Airways route system.

The above discounts are not combinable with other discounts or promotions, and are valid March 8-18, 2001. Additional restrictions may apply on international travel.

To obtain these discounts, you or your professional travel consultant must call US Airways' Meeting and Convention Reservation Office at 800-334-8644; 8:00am-9:30pm, Eastern Time.

**Refer to
Gold File No. 60671635**



Americans With Disability Act:

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

Audio/Video Recording Policy:

The Minerals, Metals & Materials Society (TMS) reserves the right to any audio and video reproduction of all presentations at every TMS-sponsored meeting. Recording of sessions (audio, video, still-photography, etc.) intended for personal use, distribution, publication, or copyright without the express written consent of TMS and the individual authors is strictly prohibited. Contact the TMS Technical Programming Department to obtain a copy of the waiver release form.

About Coronado:

A natural place for romance and relaxation, the quaint village of Coronado lies just across the harbor from downtown San Diego.

It is connected to the mainland on the south by a long, narrow sandbar known as the Silver Strand and is accessible over the four-lane, two-mile long San Diego-Coronado Bay Bridge as well as by hourly ferry service. The Ferry Landing Marketplace in Coronado has been developed into an exciting retail and specialty entertainment complex that also features several fine restaurants.

The downtown area features dozens of boutiques, shops and restaurants and a large central park with a bandstand, where concerts are performed each Sunday throughout the summer. Other recreational facilities include bicycle paths, boat rentals, two yacht clubs, an 18-hole public golf course, tennis courts, a community playhouse and three public beaches.

Perhaps one of the greatest attractions of Coronado is its astonishing variety of fine restaurants, serving everything from fresh-caught seafood to gourmet pizzas. Equally enticing is the variety of boutiques and shops, many of which are accessible via the environmentally friendly Coronado Electric Shuttle.

Directions:

From San Diego Airport:

Left on Harbor Drive, left on Grape Street to I-5 South. Continue to Coronado Bay Bridge Exit. Go across bridge to first right, on Glorietta Boulevard. Hotel is located 2 blocks on right.



**Materials and Science in Sports
April 22-25, 2001
Coronado, California, USA**

ADVANCE REGISTRATION FORM

Advance Registration Deadline: April 2, 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.

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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Please print or type Dr. Prof. Mr. Mrs. Ms. TMS Member Number: _____

This address is: Business Home New Address Address Correction

Surname: _____ First Name: _____ Middle Initial: _____

Employer: _____

Address: _____

City: _____ State/Province: _____ Zip/Postal Code: _____

Country: _____

Telephone: _____ Fax: _____ E-Mail Address: _____

Accompanying Person Name for Badge: _____
(Guests do not receive admission to technical sessions.)

Registration Fees

	Advance fees to April 2	On-Site fees after April 2
<input type="checkbox"/> Member*	\$450	\$550
<input type="checkbox"/> Non-Member*	\$545	\$645
<input type="checkbox"/> Student**	\$150	\$200

(Students must attach a copy of their school's identification card.)

*Includes Technical Sessions, Welcoming Reception, Conference Banquet and one copy of the Proceedings.
**Includes Technical Sessions and Welcoming Reception. Tickets may be purchased for the Conference Banquet and Proceedings.

Social Function Tickets:

	Fee	Number	Total
Additional Ticket for Students/Spouses			
<input type="checkbox"/> Welcoming Reception Sunday, April 22, 2001	\$25	_____	\$ _____
<input type="checkbox"/> Conference Banquet Tuesday, April 24, 2001	\$60	_____	\$ _____

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

Additional Proceedings may be purchased for \$75.00 per proceedings.

	Fee	Number	Total
Materials and Science in Sports	\$75	_____	\$ _____

Shipping

	Number	Total
Add \$10 per copy for U.S. shipping	_____	\$ _____
Add \$20 per copy for international shipping	_____	\$ _____

TOTAL FEES: \$ _____

Payment Options

- Check payable to TMS. Payment should be made in US dollars drawn on a US bank or via the following:
- VISA Diners Club
 MasterCard American Express

Card Number _____

Exp. Date _____

Cardholder Name (print) _____

Signature _____

Refund policy:
Written requests must arrive at TMS no later than April 2, 2001.
A \$50 processing fee will be charged for all registration cancellations.

Coronado Island Marriott Resort Reservation Form

Materials & Science in Sports

April 22–25, 2001

SEND THIS FORM DIRECTLY TO:

*Coronado Island Marriott Resort
Reservations Department
2000 Second Street
Coronado, California 92118
Reservation Phone: (619) 435-3000
Fax: (619) 522-3028*

Please reserve the indicated accommodations and confirm to the address, telephone or fax numbers above.
(Note: Please reproduce this form for additional reservations.)

IMPORTANT: Deadline for reservations is **March 30, 2001**. Rooms may sell out prior to the cut-off date, so early reservations are strongly encouraged. Requests received after **March 30, 2001**, will be confirmed on a rate and availability basis only.

Arrival Date: _____ Departure Date: _____

	# of Rooms	# of Persons	Name of Person Sharing	Rate	State & Local Current Tax
Single				\$155.00	8%
Double				\$155.00	8%

Smoking Nonsmoking Other Special Needs _____

Name	
Company	
Street	
City/State/Zip Country	
Business Phone	
Home Phone	
E-Mail	

Notes: When Making your reservations, it is requested that you either:

- Enclose a check or money order covering the first night's room and tax
- Send your account number of one of the following credit cards:
American Express, Visa, Master Card, Discover or Diners Club/Carte Blanche

Name on Credit Card: _____

Credit Card Number: _____ Exp. Date: _____

Signature: _____ Phone: _____

**THE CORONADO ISLAND MARRIOTT RESORT REGRETS THAT IT CANNOT HOLD TOUR
RESERVATIONS WITHOUT A DEPOSIT/CREDIT CARD**

- Deposits will be refunded only if cancellation notification is given at least 7 days prior to arrival
- Check in time is 4:00 PM; check out time in 12:00 noon.

EXHIBIT SPACE RESERVATION FORM
Materials and Science in Sports
April 22-25, 2001
Coronado Island Marriott Resort
Coronado, California

To reserve exhibit space, please complete this form and return it to Cindy A. Wilson at the address given below. Space will be assigned on a first-come, first-served basis.

Date: _____

Exhibit Contact: _____

Organization: _____

Address: _____

City: _____ State: _____ Postal Code: _____ Country: _____

Phone: _____ Fax: _____ E-mail: _____

Please reserve _____ (quantity) 10 ft x 10 ft booth spaces @ \$1000 each.

DEPOSIT:

Our deposit of \$250 per booth is enclosed (refundable if cancelled by February 15, 2001, minus a \$30 processing fee).

Check (please make payable to TMS)

Credit Card (Please circle one)

MasterCard

VISA

Diners Club

American Express

Card Number: _____

Exp. Date: _____ Signature: _____

Total Amount Enclosed: \$ _____

Please complete and return one copy of this form to
Cindy A. Wilson, Sales Coordinator,
TMS Headquarters, 184 Thorn Hill Road, Warrendale, PA 15086-7514
Phone: 724/776-9000, Ext. 231 Fax: 724/776-3770 E-mail: wilson@tms.org

TMS

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