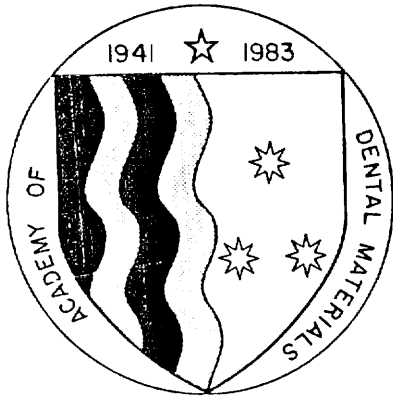


NEWSLETTER OF THE
ACADEMY OF DENTAL MATERIALS
19 January 1990



From the President, Stephen C. Bayne
Vice President, Matthijs Vrijhoef
Secretary, Grayson W. Marshall
Treasurer, James E. Overberger
Member-at-Large, Franklin A. Young
Member-at-Large, Sheldon Newman
Member-at-Large, Jeff M. Van der Zee
Member-at-Large, Lyle D. Zardiackas
Member-at-Large, Graeme J. Ewers

1991 will be a vibrant and exciting 50th year for the Academy of Dental Materials. As part of this celebration we hope that everyone will continue to promote and participate in the Academy. In February I will complete my term as President. I would like to thank everyone for their support during the past two years. To bring everyone up to date on all the issues considered by the Executive Committee and the Academy, I have tried to touch on all the aspects of the Academy in this newsletter.

THE AMALGAM CONTROVERSY

During 1990 and early 1991 the anti-amalgamists have been very active in promoting mis-information and accelerating removal of amalgams for incredibly high profits. Many of these events have been reported by the ADA and NIDR but many other events are still unfolding. Therefore, I thought it would be worth at least highlighting the key items. (1) A group of active anti-amalgamists filed suit against the ADA in Ohio federal court charging the ADA with promoting mal-practice and restraint of trade. That suit has been dropped and may be re-filed in a Chicago court. (2) Dr. Joel Berger (an active anti-amalgamist) lost his license to practice dentistry as the result of a New York State review. (3) Vimy and Lorscheider published three controversial articles attempting to damn dental amalgam restorations as releasing high levels of mercury. The same experiments were also done in pregnant ewes using 16 amalgams per animal with radioactive mercury. Mercury was reported as widely distributed in each sheep's body, caused a 50% reduction in kidney function, and crossed the placental barrier. The experiments were rejected by others as flawed because of the animal model, experimental problems, few animals, no controls, and a plethora of other criticisms. (4) CBS "60 Minutes" finally aired a program in the US on the "Poison in Your Mouth" in early December 1990 with very biased and erroneous reporting. Despite outcries from the ADA, NIDR, dental materials'

scientists, and others, they maintain a steadfast position and will probably re-air the program in early summer. As the issue becomes debated more each day in the public media, there is increasing public confusion about toxicity vs hypersensitivity, inorganic vs organic mercury, science vs faked blood tests, alpha tests, and kinesiology, and current practice vs "alternatives".

Last year (1990) in Chicago at the Executive Committee meeting of the Academy of Dental Materials meeting we discussed the issue in depth. I had personally made an appeal to develop a position statement to be published in the journal. However, there were three points of view. The first was a lingering concern that there was not sufficient scientific information to be completely convinced about amalgam safety. This was a small minority view but was the stimulus for caution in public statements. The second view was that the Academy should adopt the position of promoting publication of views but should not adopt a specific position statement. Finally, there was the view I held that we should be pro-active and publish a position statement. I had solicited information from a variety of individuals to develop a sample position paper. However, the predominant view at that time was that the Academy should encourage publication but not publish a position paper. Therefore, we continue at this time to be reactive, and not "pro-active". This is unfortunate in my opinion. If you have strong feelings on this issue, please feel free to communicate with me (Dr. Stephen C. Bayne, School of Dentistry, University of North Carolina, Chapel Hill NC 27599-7450, 919-966-2776 for office, 919-966-5660 for FAX).

In the meantime, a host of other organizations are also reviewing the issues. One of our most effective patient education tools has been an article which appeared in *Consumer Reports* in 1986, entitled "The mercury scare: If your dentist wants to remove your fillings because they contain mercury, watch your wallet." We have indirectly learned that *Consumer Reports* will revisit this issue later this year. Their scientific editor is receiving assistance from Dr. Irv Mandel. If there is something which you feel should be included, please forward that information directly to Irv (Dr. Irwin D. Mandel, 60 Pine Drive, Cedar Grove NJ 07009, 212-305-224 for office, 212-305-8456 for FAX).

The FDA is reviewing the information of the anti-amalgamists and may make an official statement later this year. In the meantime, they have re-affirmed the safety of dental amalgam. Unfortunately, they have not been significantly involved in the efforts to date.

All of the AADS dental school members received an information statement from the Executive Secretary's office on the amalgam controversy. This was neither informative nor correct in thrust. It did, however, point out another one of the current difficulties, that of coordinating responses. Because of the active and long term involvement of the ADA, I would recommend that everyone try to coordinate their activities with them for the time being. (Contact either Dr. P.L. Fan, Assistant Director of the Council for Dental Materials, Instruments, and Equipment, American Dental Association, 211 East Chicago Avenue, Chicago IL 60611, 312-440-2511 for office, 312-440-7494 for FAX, or Dr. Enid A. Neidel, American Dental Association, 211 East Chicago Avenue, Chicago IL 60611, 312-440-2543 for office).

Finally, the number of vocal individuals is increasing rapidly.

Dr. Richard Simonsen, Editor of *Quintessence International*, will be publishing an editorial on this topic in the upcoming March issue. This will be presented with commentaries from other dental materials researchers. My own personal feeling is that we must continue to vigilantly fight this type of charlatanism, continue to appropriately research dental amalgam, but also, emphasize the development of even more superior restorative materials.

THE EXECUTIVE COMMITTEE

The Executive Committee members of the Academy have been individually quite active during the 1990-91 year, but we have not met since the IADR meeting in Cincinnati last March. Because 4 Academy meetings occurred in the span of 12 months during 1989-90 and there were numerous other dental materials meetings scheduled, we decided to minimize the number for the Academy during this past 12 months.

Because this will be one of my last official acts as the President of the Academy, I would like to acknowledge the following individuals for their contributions during this past year:

Organization of the Executive Committee

1. CONFERENCE GROUP:
 - a. Program Planning Anusavice
 - b. Hawaii Meeting (1993) Ohashi/Okabe
 - c. 1991 Annual Meeting Anusavice
 - d. Continuing Education Overberger
2. INTERNAL (BUSINESS) AFFAIRS:
 - a. Legal Affairs: ...
 - b. Constitution and By-Laws Newman
 - c. Minutes/Records Marshall,G
 - d. Archivist/Historian Plymale
3. FINANCIAL GROUP:
 - a. Individual Membership Cowperthwaite/Davis
 - b. Regional Liaisons Glantz/Harcourt/
Nakayama/Riesgo/Tahawi
 - c. Corporate Membership Zardiackas
 - d. Student Membership ...
4. PUBLICATIONS GROUP:
 - a. Journal Editor Young
 - b. Transactions Editor Setcos
 - c. Newsletter Editor Bayne
 - d. Membership Roster Editor Marker,V
5. AWARDS GROUP:
 - a. Student Awards Marshall,G
 - b. Fellowship Awards Marshall,G
 - c. Paffenbarger Award Erickson
6. ACADEMY DEVELOPMENT GROUP:
 - a. Internationalization Greener
 - b. Intersociety Liaison Lemons
 - c. Nominations for New Officers Marshall,S
 - d. Information Exchange Gettleman
 - e. Long Range Planning Tesk
 - f. Consultant Phillips

The Academy of Dental Materials is officially represented by nine members of the Board of Directors which are the elected officers. Our

operating procedure during the last 8 years has been to conduct all business using an Executive Committee composed of all the officers, the Editor, and individuals conducting the business of the Academy. The Executive Committee meets on the day before the Annual Business Meeting, during all IADR/AADR meetings, and during all Academy conferences. This guarantees at least 2 meetings per year and in some cases as many as 4 meetings per year. Because of the large number of activities, it has been helpful to collect the variety of individuals into groups.

ELECTIONS OF NEW OFFICERS:

It is traditional for the Immediate Past President to form a committee at the direction of the President to nominate officers at the time of elections. Dr. Sally J. Marshall is the chairman of the nominating committee for the 1991 slate of new officers and will present that list for consideration at the Business Meeting on February 14th, 1991 in Chicago. ANY NOMINATIONS WHICH YOU THINK SHOULD BE CONSIDERED SHOULD BE RELAYED TO DR. MARSHALL AS SOON AS POSSIBLE. Nominations may be introduced by any member present at the Business Meeting from the floor. (Dr. Sally J. Marshall, Department of Restorative Dentistry, School of Dentistry, University of California at San Francisco, Box 0758, San Francisco, California 94143-0758, 415-476-5992 for office, 415-476-0858 for FAX).

Dr. Matthijs Vrijhoef is currently the Vice-President of the Academy and logically the nominee for President. However, early last year, he contacted me with the news that his position at 3M in Europe involved such an extensive commitment that he felt he would be unable to serve at this time, and asked that he not be considered.

The process to date has been to nominate those individuals who have served on the Executive Committee in several capacities, who were then elected as officers, and who has served in all of the officer positions, rising to the position of Vice President. There are no rules that preclude consideration of anyone.

At the present time, there are more and more individuals who are contributing to the Executive Committee for extended times and who are also be serving in officer positions for more than one term. Therefore, they are logical candidates for the Presidency. The nominating committee is considering those individuals on the basis of their service and availability to make the commitment to the office of President. Generally, it takes about 4 hours per week, every week, for the two year term. In addition, there is often much more time required when meetings or other events occur.

The election of the officers will occur at the Business Meeting in 4 weeks. The tentative slate of nominees includes:

President, Grayson W. Marshall
Vice President, Jeff Van der Zel
Secretary, Lyle D. Zardiackas
Treasurer, James E. Overberger
Member-at-Large, Franklin A. Young
Member-at-Large, Ken A. Anusavice
Member-at-Large, Vickie Marker
Member-at-Large, Yoshiaki Tani
Member-at-Large, Matthijs Vrijhoef

UPCOMING ANNUAL MEETING

The next meeting of the Academy of Dental Materials will be the annual meeting in Chicago, Illinois on February 14-15, 1991. The business meeting will be held at the Executive House (312-346-7100) on Michigan Avenue starting at 6:00 pm on Thursday, February 14, 1990. The scientific meeting will be held at the Hillenbrand Auditorium at the ADA on Chicago Avenue on Friday, February 15, 1991. This year's scientific meeting is entitled the "ADVANCING BIOMATERIALS RESEARCH THROUGH THE PATENT PROCESS" and has been organized by Dr. Ken Anusavice (904-392-4351). The meeting occurs just prior to the Chicago Mid-Winter Meeting. Transactions of Dental Materials, Vol 4, No. 1, will be published with this meeting.

NEW CONFERENCES:

We have tentatively planned for the 1992 Annual Meeting to be held in Chicago on "Maxillofacial Prosthetic Materials" at the Hillenbrand Auditorium of the ADA on Friday, February 14, 1992. For more information you should contact the conference chairman Dr. Larry Gettleman, Department of Reconstructive Dentistry, University of Louisville, 501 South Preston Street, Louisville KY 40292, 502-588-5045 for office, 502-588-7163 for FAX). Dr. Gettleman has submitted an application for an NIDR conference grant to support the activities of this conference.

We had initially explored a conference for the summer of 1991 on dentin properties and bonding. However, we decided that this has been an overexamined topic and that effort has been discontinued.

We explored the possibility of a conference "Advances in Dental Materials and Research" to be held in Moscow in the near future. We have had significant difficulty coordinating this with the Russian Dental Society and have not yet been able to establish the proper financing. That will have to be completely underwritten by a sponsor because the Russian dentists and scientists are not in a position at the present time to pay registration and hotel costs.

We are also continuing to explore the topic of "Lasers in Dentistry" as a future meeting. This will be discussed at the next Executive Committee meeting.

The Academy of Dental Materials and the Japanese Society for Dental Materials and Devices will again co-sponsor a meeting in Hawaii entitled the "SECOND INTERNATIONAL SYMPOSIUM ON DENTAL MATERIALS". That has been scheduled for Fall 1993.

FUTURE ANNUAL MEETINGS:

The Academy has traditionally arranged its conference to precede the Chicago Dental Society's MID-WINTER MEETING every year. It has been conveniently scheduled so that the Business Meeting is always on the preceding Thursday evening with the Scientific Meeting occurring at the ADA on the Friday before Mid-Winter. This has posed the least conflict for attending members, corporate representatives, and others, as well as supporting the attendance at the Mid-Winter Meeting. However, on March 8, 1990 the Board of Directors of the Mid-Winter Meeting voted to move

their meeting in 1993 to Chicago's McCormick Place utilizing the McCormick Center Hotel. At the same time, the meeting dates will now occur from THURSDAY through SUNDAY.

The Academy of Dental Materials has not yet decided how to respond to this change. We have the option of moving our meeting sites and times. That will be planned in the near future. For your reference the Chicago Mid-Winter meeting times will be:

ADM= February 13-14, 1992 (Th-Fr)	CMW= February 16-19, 1992 (Su-Wd)
ADM= ???	CMW= February 18-21, 1993 (Th-Su)
ADM= ???	CMW= February 24-27, 1994 (Th-Su)
ADM= ???	CMW= February 23-26, 1995 (Th-Su)

50th ANNIVERSARY PLANNING

1991 represents the completion of 50 years of operation of the Academy since the start of the original organization (American Academy for Plastics Research in Dentistry). That group was founded in 1940 and held its first scientific meeting in February 1941 in Chicago, Illinois. In honor of that occasion, the Academy initially intended to publish a special issue of the journal of Dental Materials to celebrate the successes and history of dental materials. However, in 1990 we decided that the financial problems of the journal precluded this option. Therefore, we have limited our recognition to activities involving regular issues.

ANNUAL DUES SCHEDULE FOR THE ACADEMY OF DENTAL MATERIALS

In keeping with the 1989 revision of the dues policy, the Academy now mails a dues notice on December 1st to all active members. Dues should be paid by January 1st of the new year but we grant a GRACE PERIOD until March 1st. At that time, unpaid dues are followed up by a second notice and those members are removed from all mailings of the journal or transactions. The Academy can not continue to finance delinquent members or those who have dropped membership without proper notification to our office. This costs us about \$5000 per year. We would appreciate everyone's effort in paying dues in timely fashion.

This is the last year that we can continue to maintain the low cost membership dues at \$85.00 per year. We have maintained this level for 5 years without accommodation for inflation, increased costs, and increased services to members. The Executive Committee voted in March 1991 to increase the dues to \$120.00/yr for individual members, to \$175.00/yr for institutional members, and to \$1000.00/yr for corporate members. This will be officially voted on at the Business Meeting.

All dues (\$85.00/yr for 1991, \$120.00/yr for 1992) should be forwarded to Dr. James E. Overberger, Treasurer, Academy of Dental Materials, School of Dentistry, 1163 Health Sciences Center North, Morgantown, WV 26506.

ACADEMY MEMBERSHIP DIRECTORY

A new membership directory has been compiled, printed, and distributed by Dr. Vickie Marker (214-828-8278), Ms. Betty Davis (803-792-2828), and Dr. James Setcos (415-476-5883). It was an experiment to upgrade the older format to include addresses, phone numbers, FAX numbers, and photographs. We apologize to anyone who is a new member

who was not included but this had to go to press last spring 1990. Congratulations for this initial effort. Our next step is to keep the Academy information up to date by surveying everyone for changes at the same time as the dues billing. We hope that we can complete much more of the photographic information in the next directory in the near future. We normally did this only every three to four years but we would like it to become an annual benefit as soon as possible.

MEMBERSHIP EXPANSION AND RECRUITING

The Academy of Dental Materials has consisted of about 300 members in 21 countries and has been at an "apparently stable size" for about 5 years. However, during the past year as we carefully examined the dues collected and institutional subscription lists, we discovered that many unpaid members were still being sent journal and transaction mailings. We have now cleared those unpaid members to save money. This means that our current individual membership has been reduced to about 250.

My current sense is that we lost some of the members with the announcement that the journal would decrease in size temporarily to absorb losses encountered during the first year (1989) of IADR management. We are now in the process of examining cost reductions for the journal that will allow expansion. We hope that the membership roles will expand with these changes.

FINANCIAL SUMMARY

The major sources of income for the Academy are the (1) individual membership dues, (2) corporate membership fees, (3) conference income, and (4) shared royalties from the publication of the *Dental Materials* journal. The major expenses for the Academy are (1) journal subscriptions (\$55.00 per member out of the membership dues), (2) editorial office costs for the journal (\$7,000 per year), (3) plaques for student awards, corporate members, or initiation of fellows, (4) mailing costs for newsletters and announcements, and (5) administrative expenses for the offices of the Executive Secretary and the Treasurer.

During the past several years we have encountered numerous circumstances in which, despite our planning, meetings experienced losses and the journal publisher did not generate income. Dr. James Overberger, Dr. Frank Young, and I have spent considerable effort working for almost 2 years to get the Academy onto a more sound financial footing. These have involved more realistic financing of meetings, separating the dues and annual meeting fees, increasing the dues to a more realistic level, eliminating unpaid members, reducing the journal expenses to budgeted levels, investing existing monies, eliminating conferences which would not be income producing, and accelerating planning for special conferences that could produce extensive profits. I cannot thank both Jim and Frank enough for their contributions, suggestions, and efforts in traveling for the Academy to manage these pressing items. Because of their contributions the Academy will survive in a well managed way in the future and the journal should be able to expand in the near future.

DENTAL MATERIALS JOURNAL

We are now in our second year of operation with our new publisher of the journal, the IADR. We are continuing to work with Dr. John Clarkson (Executive Director of IADR) and Ms. Linda Hemphill to produce

Dental Materials. However, we are still not showing a profit, despite our dramatic changes in the number of issues and pages last year. We are now pressing the IADR to immediately reduce their costs by going to electronic publishing. If this is not forthcoming almost immediately, then it is our plan to produce the journal ourselves. This would save us considerable monies and time, but would involve some new operations at which we are currently novices. In either case, look for some major changes in the near future.

It has also been a goal during the past year to identify individuals as candidates to be the next Editor for the journal. We have talked to many interested individuals who unfortunately do not seem to have adequate time or resources to guarantee the support necessary for the Editor's office. We have NEVER paid the Editor a salary. The only compensation which we have provided has been the direct costs of secretarial help, office supplies, and mailing expenses. This is a prestigious position which brings to the Editor international recognition and special Academy privileges which offset the concomitant responsibilities. Our original arrangement with Dr. Frank Young was to serve a 5 year term. Frank has graciously consented to serve until a new Editor can be installed. In addition, he will continue to provide both advice and help for the technical production of the journal.

We welcome any comments about the future operation of the Editor's office. At the present time, our annual operating cost for production and mailing of the journal is \$70,000 per year. We would like to reduce those costs to about \$60,000 to break even on the operation. Increases in membership have obvious advantages of reducing the relative cost per member. Please direct any suggestions or questions to the current Editor (Dr. Frank Young, Department of Materials Science, Medical University of South Carolina, 171 Ashley Avenue, Charleston SC, 803-792-2827 for phone, 803-792-0390 for FAX).

Our goal is much more ambitious than just breaking even. We would like to re-institute 6 issues per year and increase the size from 48 to 96 pages of scientific articles. This would effectively TRIPLE the publication volume of the journal. We now have sufficient submissions to maintain that rate of publication. Unfortunately, for the near future the Editor has been unable to accept the large number of qualified manuscripts because of the financial problems and potential backlog. Please bear with us. This will be resolved in the next 3 months one way or another.

CORPORATE MEMBERS

The Academy exists to promote scientific exchange between research scientists, practicing clinicians, and dental manufacturers. As part of that triad, the dental manufacturing companies have scientists that are individual members but they also have consistently sponsored the Academy by paying \$500 per year. The dues level will be increased to \$1000 for the 1992 year. Their support is key to our day-to-day activities. The current list of corporate members includes:

1. BISCO
2. CAVEX HOLLAND B.V.
3. COLLAGEN CORPORATION
4. ELEPHANT EDEMETAAL
5. ENGELHARD

6. ESSCHEM
7. G-C DENTAL DENTAL INDUSTRIAL CORPORATION
8. GREENMARK, INCORPORATED
9. JOHNSON & JOHNSON PROFESSIONAL DENTAL CARE
(Div of Consumer Products Inc)
10. KERR MANUFACTURING COMPANY
11. KURARAY LTD
12. 3M DENTAL PRODUCTS DIVISION LABORATORIES
13. MTS SYSTEMS CORPORATION
14. NOBEL PHARMA USA, INC
15. PREMIER DENTAL PRODUCTS

DENTAL STUDENT AWARDS

Each year the Academy of Dental Materials provides a plaque to a member of the graduating class in about 40 dental schools in the United States and 20 dental schools in other countries at which there is a member on the faculty representing the Academy. Participation in this award process is done by directly contacting the student awards chairman (Dr. Grayson W. Marshall, Department of Restorative Dentistry, School of Dentistry, University of California at San Francisco, Box 0758, San Francisco CA 94143-0758, 415-476-9119 for office). The criteria for selecting candidates are left up to the individual contact or committee of local members representing the Academy. The plaque is a 10" x 12" polished wooden board with an etched brass plate containing an inscription and the individual's name. This process requires at least 4 weeks lead time. Therefore, please contact Dr. Grayson Marshall in enough time that the plaques can be produced and distributed.

PAFFENBARGER STUDENT RESEARCH AWARD

In honor of Dr. George C. Paffenbarger, the Academy of Dental Materials has provided the Paffenbarger Student Research Award. The intent is to recognize annually, any student's contribution to the Academy by way of a published manuscript in Dental Materials or presented research which is abstracted in the Transactions of the Academy of Dental Materials. We provide a \$500 cash award.

This award was presented last year for the only for the first time because of problems identifying qualifying students from among other scientists. We have been frustrated by authors lack of cooperation in identifying the student status of authors or presenters. Therefore, we are in the process of redefining this award.

The committee in charge of selection and presentation of the award includes Drs. Lyle D. Zardiackas, Robert Erickson, Frank Young, and Jim Setcos. Contact anyone of them directly to indicate your intention to compete or name a candidate for this award.

ANNOUNCEMENTS

The ADA has compiled a handbook called *Composite* detailing the structure, licensing, and activities of all state dental boards which includes state licensing requirements. This is copyrighted by the AADE and is available for \$15.00 from Ms. Molly Nadler, AADE Executive Director, Suite 844, 211 East Chicago Avenue, Chicago IL, 1-800-621-8099 or 1-312-440-7464.

OTHER UPCOMING MEETINGS:

AADS Meeting, New Orleans LA, March 10-13, 1991.

AADR/IADR Meeting, Acapulco MEXICO, April 17-21, 1991.

Society for Biomaterials, Scottsdale, AZ, May 1-5, 1991.

SEM International Conference, Bethesda MD, May 4-9, 1991.

SCANNING MICROSCOPY 1991 DENTAL MATERIALS PROGRAM

A session on dental materials is being planned in conjunction with the 1991 Scanning Microscopy conference to be held May 4-9, 1991 in Bethesda MD. The co-organizers for dental materials are: Dr. G. W. Marshall, University of California, San Francisco (TEL: 415-476-9199, FAX: 415-476-0858) and Dr. S. C. Bayne, University of North Carolina, Chapel Hill NC (TEL: 919-966-2776, FAX: 919-966-5660). *Contact them for information on attendance or submission of a paper to this session.* General information on all aspects of the Scanning Microscopy meeting can be obtained from Dr. Om Johari, Scanning Microscopy International, P.O. Box 66507, AMF O'Hare IL 60666 (TEL: 708-529-6677, FAX: 708-980-6698).

Northwestern Univ Centennial Conference, Chicago IL, June 21-22, 1991.

SPECIAL REMINDER

ADVANCING BIOMATERIALS RESEARCH THROUGH THE PATENT PROCESS

Scientific Session, February 15, 1991

Hillenbrand Auditorium, 8:00-4:30,

ADA, 211 East Chicago Avenue, Chicago IL 60611

Meeting Chairman: Dr. Ken Anusavice, 904-392-4351

- 7:15 REGISTRATION
8:00 Welcome and Introduction
- 8:10 *Obtaining a Patent on Biomedical Materials: Guidelines and Considerations of the U.S. Patent and Trademark Office*
(Mr. William R. Dixon Jr, U.S. P&T Office)
8:30 Discussion
- 8:40 *How to Conduct a Patent Search*
(Mr. George Cowperthwaite, Esschem)
9:00 Discussion
- 9:10 *Protection of Company Patent Information, Trade Secrets, and Interaction with University Researchers*
(Mr. Dave Cleveland, 3M)
9:30 Discussion
- 9:40 Coffee Break and *POSTER PRESENTATIONS*
- 10:20 *Elements of the Patent Process: University and Foundation Considerations*
(Dr. John Wetherell, Jr., Patent Attorney)
11:00 Discussion
- 11:10 *PANEL DISCUSSION*
(Moderators: Dr. Kenneth I. Kohn and Dr. Joyce Reese)
- 11:45 Lunch
- 1:15 *Patents on Casting Alloys and Porcelains: Problems on the Way to the Patent Office and Benefits of Getting There*
(Mr. Clyde Ingersoll, Ivoclar - North America)
1:35 Discussion
- 1:45 *Evolution of Glass-Ceramics*
(Dr. David Grossman, Corning Glass)
2:05 Discussion
- 2:15 *A Japanese Perspective on Patent Development*
(Dr. Mas Tsuenekawa, UCSF)
2:35 Discussion
- 2:45 *Enhancing Composite Research Through a Search of the Patent Literature*
(Dr. Karl-Johan Soderholm, University of Florida)
3:05 Discussion
3:15 Summary
- 3:30 Coffee Break and *POSTER PRESENTATIONS*
4:30 Adjourn

**ANNUAL BUSINESS MEETING AND BANQUET
ACADEMY OF DENTAL MATERIALS**

Date: February 14, 1991 (Thursday)
Time: 6:00 p.m. Cocktail Hour
7:00 p.m. Dinner
8:30 p.m. Business Meeting
Fee: \$40.00 per person for dinner
Location: Executive House
71 East Wacker Drive
Chicago, IL 60601-3607
(Tel.) 312-346-7100

ANNUAL MEETING

**Advancing Biomaterials Research
Through The Patent Process**

Date: February 15, 1991 (Friday)
Time: 8:00 a.m. to 4:30 p.m.
Fee:

	<u>Preregistration</u>	<u>On-site Registration</u>
Member	\$150	\$250
Non-Member	\$275	\$325
Student	\$ 10	\$ 25
ADM Corp. Rep.	\$...	\$...

PREREGISTRATION DEADLINE: JANUARY 25, 1991

Location: Hillenbrand Auditorium
American Dental Association
211 East Chicago Avenue
Chicago, IL 60611
(Tel.) 312-440-2500