



**american
academy
of
gold foil
operators**

Gold Leaf

January 2000

PRESIDENT

Dr. Timothy J. Carlson
1121 W. Michigan St.
Indianapolis, IN 46202
(317) 274-8686

PRESIDENT-ELECT

Dr. Richard D. Tucker
1800 C. Street, Suite 226
Bellingham, WA 98225
(360) 676-0305

VICE-PRESIDENT

Dr. Robert C. Keene
31 South Park St.
Hanover, NH 03755
(603) 643-4142

SECRETARY-TREASURER

Dr. Ronald K. Harris
17922 Tallgrass Ct.
Noblesville, IN 46060
Phone/FAX (317) 867-3011

EXECUTIVE COUNCIL

2000 Dr. Warren K. Johnson
2001 Dr. James Gourley
2002 Dr. Scott Barrett

AMERICAN ACADEMY OF GOLD FOIL OPERATORS

Annual Board Meeting

October 27, 1999

SHERATON MUSIC CITY HOTEL - NASHVILLE, TN.

Meeting was called to order at 2:05 P.M. by President Craig Bridgeman. Members present were: Drs. Eichmiller, Carlson, Harris, Johnson, R.D. Tucker, Keene, McCoy, Barrett, Cochran, and Gourley.

The agenda for the meeting and interim financial report were distributed to all present. Minutes of the February Board meeting were approved as published in the Gold Leaf. Membership has shown a decrease as of this meeting once again. It was agreed that the senior Board member, Warren Johnson, will perform a type of audit of account in Feb.

Treasurer's Report:

Assets - October 19, 1999:			
CD	\$30,000.00	Matures 2/22/00	
CD	25,000.00	Matures 1/14/00	
Checking	<u>21,873.13</u>		
			\$76,873.13
Receipts - 1999	\$32,569.39		
Expenditures - 1999	<u>25,237.37</u>		
Net gain/loss			\$7,332.02
Assets - January 1, 1999			
CD	\$30,000.00		
CD	25,000.00		
Checking	<u>14,712.22</u>		
			\$69,712.22
Difference in Assets during 1999	+7,160.91		

Total members 288 (8 to be dropped and there are 5 new applicants, bringing total to 285)

Dues paying members - 195 (plus the 5 new members for next year)

Financial report was accepted.

Correspondence:

Note from Bob Wolcott's wife telling us of his passing.

Journal Reports:

Editor Dick McCoy reported that a new style binding will be used for the Journal. Manuscripts continue to be received at a steady rate, and waiting time for publication is now about 14 months. Subscriptions and income are up again this year. More pages and articles.

Dan Sneed will be chairman of the Supplement #6 committee, along with Ivan Stangel and Fred Eichmiller. This regards the International Symposium scheduled September 15-17, in Charleston, SC. Emphasis is to be on caries control restorations.

Faculty position ads, book reviews, abstracts and "Operative Pearls" have been published during the year.

The transition to Indiana has gone smoothly. Dr. Tim Carlson has already assumed the role of managing editor, and Dr. Mike Cochran will take over as editor in 2000. Drs. Cochran and McCoy have been, and will continue to be working together for a while. A whole staff of new folks is in position and running in Indiana. Many thanks to the previous staff.

Drs. McCoy and Anderson were congratulated by the entire Board for all of their untiring efforts over the years.

Mike explained the role of corporate sponsorships for the Journal as a money maker without any advertising. Sponsors can be accessed through the web site.

Annual Meeting Report:

Tim has all the speakers ready to go. Spouses invited for Saturday.

Dick said that the clinical session should be in good shape with 22 operations over two days. Patients have been screened at the dental school with the efforts of Drs. Bridgeman and DeArmond.

Future Meetings:

2000 - Honolulu/Naval Dental Center, Pearl Harbor, November 1-4. Headquarters hotel is the Ihilani Resort and Spa, and the clinical procedures will be done at the Pearl Harbor Naval Base. Dick is looking for speakers from within the Academy.

2001 - Indianapolis, October 3-6. Hotel to be procured.

2002 - Possibly Boston or the West Coast. No date yet. Schools will be invited to host.

Committee Reports:

Literature and Research - Fred Eichmiller presented his report. Bibliography is updated through 1999 with a number of new inserts. Several Electromallets have been donated to Fred. Some foreign instruments have been developed, but they do not appear to function very well. No progress with the Harris Museum in Baltimore, so no action to be taken yet. Tim discussed the possibility of generating a web site for the Academy. Currently linked to the Journal.

Nominating Committee - Scott Barrett will be the new Board member.

Inter-Academy Liaison - no report.

Public Relations - no activity. Committee to be dissolved in bylaw change.

Education and Clinical Seminars - no report.

Necrology - There have been 4 decedents since last year's report: Drs. Frank Blair, Norm Olsen, Bob Wolcott and J. Bennett Hooker. Members are asked to keep the Secretary alerted on the death of any members.

Outstanding Clinician - The committee has selected Allan Osborn as this year's recipient, and Dave Thorburn will make the presentation.

Distinguished Member - The awardee this year is Norm Ferguson and Ludlow "Beam" Beamish will make the presentation at the banquet.

Constitution and Bylaws - There has been general agreement to delete the Public Relations Committee. The Board concurred. To be voted on by the attending membership.

International Meetings - Allan and his group reported on the meeting in Greifswald, Germany in early June of 1999. Dr. Georg Meyer contributed a large degree of support, with funding to defray costs. The conference was considered a very successful one. Dr. Warren Johnson will be taking over this committee.

Gold Leaf:

Allan Osborn said that there will continue to be two issues per year, approximately 6 months apart. Photographs play a large part in telling the story, so will continue to be used. We can start to look for a new editor in approximately 4 years.

Unfinished Business:

A contribution to Meharry of \$1,000 was approved, and will be directed to the Operative Department, and presented to the Dean at the banquet.

Contributions will be made to the Relief Fund and ADA Health Foundation.

New Business:

Dick Tucker would like to have names of those interested in operating in 1999. Secretary-Treasurer would like to find a replacement in the next two years.

The meeting was adjourned at 4:10 P.M.

Respectfully submitted,
Ronald K. Harris, D.D.S., M.S.D.
Secretary-Treasurer

Banquet Festivities



Head Table (L-R): Dr. Norman Ferguson, Mrs. Francis Ferguson, Dr. Timothy Carlson, Mrs. Ann Carlson, Dr. Craig Bridgeman, Mrs. Rose Bridgeman, Dr. Ron Harris, Mrs. Laverne Harris.



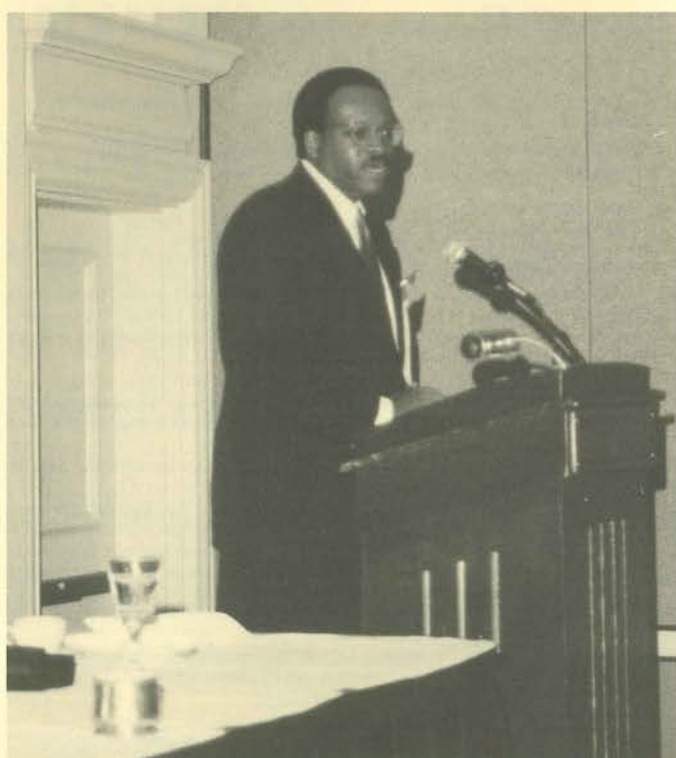
NEW BOARD (L-R): Drs. Tim Carlson, Dick Tucker, Bob Keene, Ron Harris, Warren Johnson, Jim Gourley, Scott Barrett.



President Bridgeman thanks Dean Kenneth Chance and Dr. Henry for their tremendous hospitality.



President Bridgeman introduces the head table.



Dean Kenneth Chance thanks the Academy for an inspirational meeting.



Outgoing President Craig Bridgeman hands the gavel of office to incoming president Timothy Carlson.



President Tim Carlson presents the outgoing President's Plaque to Dr. Craig Bridgeman.





Our Entertainers.

Required Alms.

Nashville Sights & Nights



Budweiser Horses in downtown Nashville.



Sheraton Hotel meeting headquarters.



CLINIC SESSION



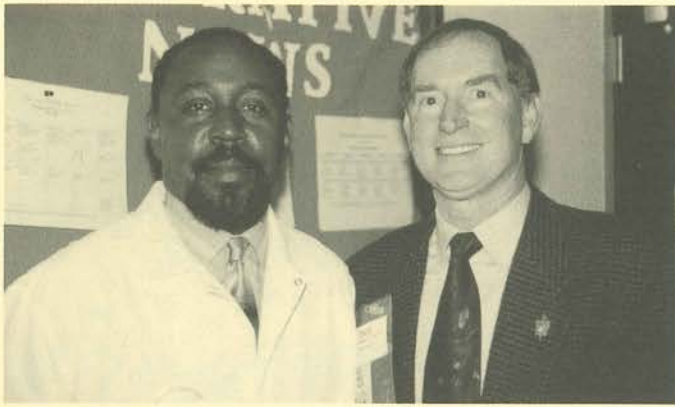
How does this thing wind-up?



Dr. Barry Evans.



Drs. Harris, Henry, Bridgeman, Carlson and Tucker.



Dr. Tucker with our host Dr. Henry.



Drs. Osborn, McCoy and Henry.



Dr. Bruce Small.



Dr. Dee Deermond.



Drs. Jim Guptill, Don Benson and Tom Rastique.



Dr. Richard Hoard caught meditating.

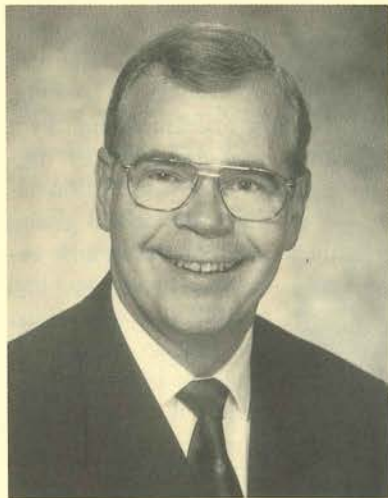


DIDACTIC SESSION

Dr. Charles Goodacre

LOMA LINDA UNIVERSITY, CALIFORNIA

Ceramics, Preparations & Precautions



Charles J. Goodacre, DDS, MSD

Dr. Goodacre addressed the Academy upon the various prerequisites that lead to success in the execution of crown and bridge work. Noting that the resistance to lateral forces is the sine qua non, and that maximum retentive force is generated at 5° taper on each side. Where 10° taper is present on each side then the retention is halved. The majority of crowns must be replaced when they become loose, and

thus generate secondary caries. It was stressed that occlusal gingival dimension must be greater than 3 mms.

The influence of the Occlusal/Faciolingual dimension was explored, and the standard that has been developed states that this ratio must be above 0.4, thus a large molar, which is relatively short Occlusogingivally (say 3 mms) would require a groove to be placed in the mesial and distal surfaces in order to increase the ratio from a lowly 0.25 (Parker et al. 1993 J. Prosth).

In order to achieve uniform colour in the ceramic restoration an even reduction of the tooth is necessary. Finish line locations vary throughout the mouth, and may be either supra or sub gingival depending on the situation. It was noted however that where the biologic width is violated that there is normally crestal bone loss of between 0.4 and 1.2 mms within the first 2 weeks.

The form of the finish line preparation does not affect the clinical efficacy and success of the crown, and may be, e.g., a distinct chamfer with an all metal collar restoration, a shoulder, a shoulder bevel, a fine chamfer. There is, however, significantly less distortion produced by the porcelain where a shoulder preparation is used. Preparation depth should be controlled to attain good aesthetics, but it may not be possible to achieve 1 mm at the shoulder in some teeth without excessive reduction in the incisal area, thus it is frequently required that we slightly enhance the thickness of the porcelain to match the shade tab. Feather edge preparations lead to an average overcontour in the gingival area of 0.6 mm.

Irregularities, particularly in paramidial teeth aid retention, and in these cases the preservation of the transitional line angles during preparation is important to their retention and success. Mandibular teeth tend to have greater convergence than maxillary teeth, and during parafunction horizontal forces lead

to tipping. Grooves in the proximal give greater retention as do the circumferential irregularities. It was noted however that the 'rounding' of line angles facilitates the pouring of dies, and the fabrication of wax patterns. It was also noted that we must only be careful to avoid stress generation when prescribing all ceramic crowns. The surface texture is also important for these restorations, and in general promotes a better fit.

In discussion of failures the importance for all procedures of careful diagnosis and treatment planning was stressed as being critical to the success of the mission.

The all ceramic systems:(a) Dicor; (b) In-ceram; (c) Empress, were noted as having greater chance of success with the female patient who is less than 33 years old. Significantly greater failure rates are to be found amongst those above this age, and also where these restorations are placed further back in the mouth. Previous parameters, e.g., 1 mm lingual reduction are currently under review. The thickness that is required occlusally is also critical, and e.g., the survival rate for dicor is significantly reduced when less than 1 mm thick.

Bonded restorations were stated to demonstrate 66% greater resistance to dislodgement, and not to be critical as to finish lines. Where prostheses were concerned these were more likely to debond in younger patients, and likewise the position of placement is also a significant factor. It was noted, however, that 15 years is the critical time for conventional prostheses, also that grooves and seats help to give additional resistance form. The question as to metal treatment prior to bonding has been looked at quite extensively, and it has been determined that there is no difference between chemical/electro etching and airborne particle abrasion.

Dr. Goodacre quote:

*Believe in 'good luck' but also believe
that it happens most often to people who work hard
and keep their eyes open.*

Dr. Christopher Lavelle

UNIVERSITY OF MANITOBA, CANADA

Challenges and Controversies in Forensic Odontology

Dr. Lavelle took us on a journey through the fascinating, but darker side, of human nature with his lecture exploring the intricacies of Forensic Odontology. Even a relatively quiet city is able to furnish an ample supply of murder victims to the coroner's office where the remarkable knowledge and skills of a forensic odontologist are required.

Murders occur for all sorts of reasons, whether it be for gain, revenge, greed or jealousy, or simply in an irrational act in a moment of passion, perhaps under the influence of alcohol.

The forensic scientist has then to sort out whether the death was from natural causes, was accidental, or whether there was

Continued on next page.

DIDACTIC SESSION – Continued

foul play involved. The first case that was shown in which a knife wound was the cause of death, but how to match the bite marks upon the cadaver with the teeth of the prime suspect when the individual has arranged to have his own teeth “modified” perhaps professionally, or perhaps by self infliction.

Similarly it is important from the standpoint of the legal system to know whether the victim was alive or dead at the time of the bite, and the time that the wound was inflicted. The rate at which bite evidence fades and ceases to be of value has been estimated with the notable assistance of two students who subjected themselves to the trauma to produce the data that is required to adequately assess the criminal situation.

The use of the computer to accurately reproduce the contours of the dentition, and critical abnormalities therein, for comparison with those marks and ‘indentations’ on the victim is a relatively recent development, and one that is in a state of ongoing development. One case presented a relatively easy solution where the perpetrator, being hungry, had snaked upon some cheese, leaving behind a splendid record of his dentition. It was also noted that there are different patterns of site selection by the perpetrator depending upon country of origin, and that this can help police to detect the correct criminal.

Not all the Forensic Odontologist’s work has to do with criminal activity however. Throughout the year there are many victims of plane crashes, or other accidents, who must be identified through the clinical and radiological examination of their dentition. The patterns that are demonstrable beneath old restorations in conjunction with the radiographs taken at rou-



Dr. Christopher Lavelle

tine intervals in the dental office can, and often are, a valuable resource when identifying victims of accidents. Similarly recent developments which permit the extraction of the small amounts of DNA from the dentition where nothing else is available can be of inestimable value.

Not all apparent bite injuries occur as a result of a crime. However, it is not unknown for a pet cat or dog to chew upon a naturally deceased owner. Also perplexing on occasion can be the determination to be made between accidental hanging, as an outcome of personal gratification, and the attempt by a perpetrator to hide the crime that has been committed by “rigging” the crime scene. It is interesting to note also that on occasion bite marks may even be self-inflicted. When giving evidence in court, any expert witness in this field must be ex-



Dr. Michael Cochran reviewing the clinical sessions.

tremely circumspect and careful! It is a *sine qua non* that to falsely accuse any individual is a terrible thing to do. Not infrequently, very young children are the victims of injuries to various parts of their bodies. The investigation of these events is normally particularly harrowing for all concerned. The ability to detach oneself from the situation at hand is very helpful.

However, it is not unknown for people whose contribution to society is

made in this way to burn out before what would normally be their expected date for retirement.

Dr. Lavelle demonstrated a special talent and compassion for what has to be one of the most difficult phases encompassed by the professional experience. His lecture was enthusiastically received by everyone.

AMERICAN ACADEMY OF GOLD FOIL OPERATORS

Distinguished Member Award

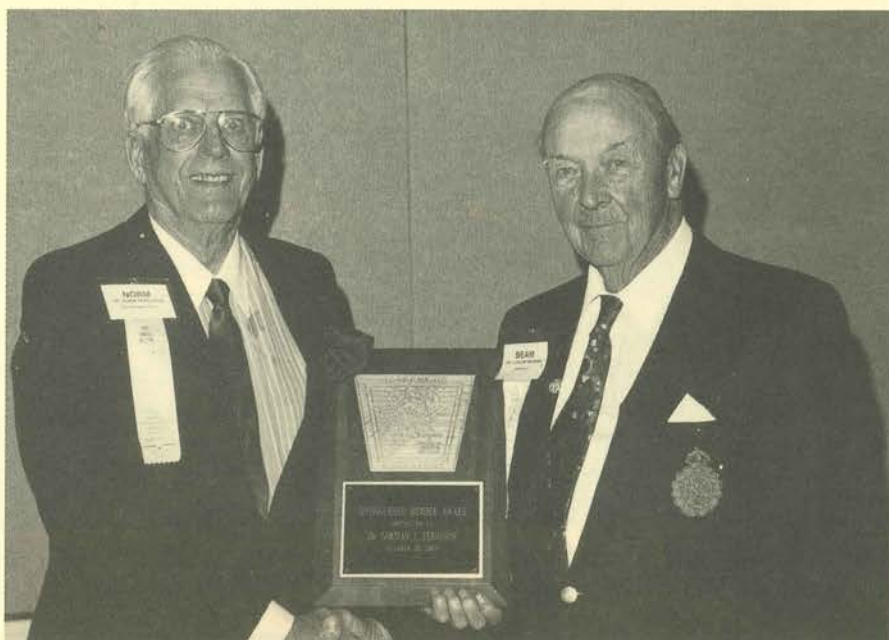
Dr. Norman C. Ferguson

Norman Ferguson was born of Irish background in New Westminster in 1922. His parents were always fully supportive of Norman's academic endeavours, and have been rewarded by the stature and prestige that Norman has achieved, and in turn, conveyed to his chosen profession.

He is married to Francis, and has a son Jim, and a daughter Jane, who has so often helped Norman to

produce the spectacularly beautiful class 3's on the distal of cuspids that are his implicit trademark.

Norman enrolled in the North Pacific College in 1941, a full time course of three years duration with no holiday periods. His knowledge of dentistry is legendary. For his interest in fine operations he gives credit to three men in particular, Lloyd Jacobson, Walter Sproule and "Mr. Gold Foil" Gerry Stibbs, who succeeded Dr. Sproule following his death. Knowing these individuals gave to Norman an



opportunity to match wits that were as sharp as his own, and also opened the way for him to meet many of the illustrious and shining stars in the dental profession such as George Ellsperman, George Hollenback and Walden I. Ferrier.

Norman's dental memberships include the Walter K. Sproule Gold Foil Study Club, The Canadian Dental Association, The Vancouver & District Dental Societies, The

American Academy of Gold Foil Operators, for which he served as President in 1983, The Canadian Academy of Restorative Dentistry & Prosthodontics, The American Academy of Restorative Dentistry, and the Operative Academy; he is an Honourary fellow of the Royal College of Dentists of Canada, and holds Fellowships in both the American and the International Colleges of Dentistry.

Continued on next page.



Dr. Ludlow Beamish introduces the distinguished member.



Dr. Beamish presents the Distinguished Member Award to Dr. Norman Ferguson.

DISTINGUISHED MEMBER AWARD – *Continued*

The University of British Columbia have awarded Norman the title of "Professor Emeritus" in recognition of his outstanding contributions to the Faculty of Dentistry.

What has our "man of the hour" done to justify these honours? He has instructed in the dental clinic at UBC for more than 20 years, written papers and given clinics on general dentistry, occlusion, porcelain jacket crowns, gold inlays and direct gold in Canada, the United States, Mexico and the Orient. His research interests spanned the width of the oral health field with particular emphasis upon occlusion, the tolerances and foibles that are found therein, and a noteworthy and simple frenectomy which virtually always reduced the anterior diastema in the upper arch of young patients.

Norman served in the Canadian Dental Corps of the R.C.A.F. during the war, the Council of the College in B.C.,



Dr. Ferguson thanks the Academy for the honour bestowed upon him.

the Provincial Examination Board, the CDA Council of Education and Accreditation, and has also served as adjudicator for Medical Services Association. He has been not only President of this Academy, but also President of our Gold Foil Club several times, and has been, by universal acclamation, inducted as Mentor of this club following in the footsteps of Gerry Stibbs, a happy and auspicious zenith in a great career, for Norman has always been ex-

ceedingly generous when it comes to sharing his prodigious knowledge with other people.

It is with the greatest pleasure that I present my friend Norman Ferguson with this "Distinguished Member Award". As we honour Norman, he in turn adds distinction and lustre to our Academy.

Ludlow Beamish

Victor Williams Outstanding Clinician Award



Dr. Dave Thorburn presents Dr. Allan Osborn with the Victor Williams Outstanding Clinician Award.



Dr. Osborn thanks the Academy for the honour he has received.

Week Gold Foil Courses in New Jersey



Participants and mentors in the picture from left to right. Back row: Drs. Warren Johnson, Bruce Small, Alan Rauch, Marvin Seltzer and Bruce Smith. Front row: Drs. Victor Avis, Murray Seltzer and Thomas Friscia.

Pictured are the participants who successfully completed a week long direct gold course conducted by Dr. Warren K. Johnson and Bruce B. Smith of Seattle, Washington. The course participants were Dr. Bruce Small from Lawrenceville, New Jersey, Dr. Alan Rauch of Somerset, New Jersey, Drs. Marvin and Murray Seltzer of Brick, New Jersey, Dr. Victor Avis of Staten Island, New York and Dr. Thomas Friscia of Englishtown, New Jersey. The course was held from July 12-16, 1999 in the office of Drs. Marvin and Murray Seltzer in Brick.

The participants attended a half day lecture on the first day of the course on direct gold which included indications and types of direct gold restorations, use and application of the rubber dam, sharpening and use of hand instruments, the making of gold foil, the rolling of gold foil pellets and cylinders, and the preparation, insertion, condensing and finishing of gold foil. The assistants of the participating doctors were taught the technique for hand malleting, the rolling of gold foil pellets of varying size and the technique for annealing the Easy Gold and gold foil pellets. After the demonstration, the assistants practiced malleting and the rolling of gold foil pellets.

The afternoon was spent prepping, inserting and finishing a Class I or buccal pit gold foil on a Ivorine tooth by Drs. Murray Seltzer and Thomas Friscia. Drs. Bruce Small, Marvin Seltzer, Victor Avis and Alan Rauch spent the afternoon prepping, inserting and finishing a Class V gold foil. Condensing of the direct gold was done by hand malleting.

The second, third, fourth and fifth days were spent placing Class Vs, Class Is, pits and casting repairs on patients. The par-

ticipants saw a patient in the morning and afternoon of each day. Critiques of the days operations was held at the end of each day.

There were twenty-four gold foil restorations placed in patients during the course.

An evening dinner was attended by all the participants and mentors.

Respectfully submitted,
Warren K. Johnson, D.D.S.
Course Director

1999 CHANGES IN MEMBERSHIP

ASSOCIATE TO ACTIVE

Dr. Dan B. Henry	Pensacola, FL.
Dr. Andy McKibbin	Lebanon, NH.
Dr. Eric Morrison	Silver Spring, MD.

ASSOCIATE

Dr. Lindel H. Brookes	Clarksville, TN
Dr. Jimmy Wai-Chun Chan	Richmond, B.C.
Dr. Thomas F. Friscia	Englishtown, NJ.
Dr. P. Brett Robinson	London, England
Dr. Norman Tischer	Landshut, Germany

GERALD STIBBS GOLD FOIL SEMINAR

The Course was attended by Dr. Henry, Dr. Hutton, Dr. Umeda and Dr. Panar from June 7-11, 1999.
In total they placed 11 Cl. Is, 3 Cl. IIIs, 17 Cl. Vs and 3 Cl. VIs.



THE '99 CLASS

Back row (L-R): Mathew Henry, Dr. Matt Panar, Dr. Gary Umeda, Dr. Dan Henry, Dr. Dick Tucker, Dr. Dave Thorburn. Front row (L-R): Sarah Franks, Susie Depledge, Dr. Ed Hutton, Katrina Sippola, Sally MacDonald.

ANNOUNCEMENT

THE 14TH ANNUAL *Gerald D. Stibbs Gold Foil Seminar*

is being presented August 14 to 18, 2000
at the University of British Columbia.

Anyone interested in attending should contact:

*Dr. David Thorburn at 604-731-5535
or Dr. Matt Panar at 604-522-1911.*

The course will be taught by Dr. Richard D. Tucker and Dr. David Thorburn.