

started when he was still a junior Registrar, and in the intervals of working for F.R.C.S. and Dip. Phys. Med. he wrote or was editor of three books. Our appreciation must also go to his wife Sally, who has had to establish a Sports Medicine office every time the family had to carry out the frequent moves junior hospital doctors seem to be making, and usually had a base functioning almost as soon as temporary cooking and sleeping facilities

had been set up, not only for the family but also for the numerous guests who came to talk, sort papers, or argue, always sure of a kind reception, usually a meal and the offer of accommodation for the night. No one has done more than John to promote sports medicine in Britain, or to promote British sports medicine throughout the world.

NOTE ADDED IN PROOF

At a meeting of the Executive Committee held on November 4th 1971, the following were co-opted on to the Executive Committee.

Vice-Chairman:

Dr. B. Kiernander

Nominated by Affiliated Organisations:

British Olympic Association. Mr. K. S. Duncan.

C.C.P.R. Mr. H. Littlewood.

LEADING ARTICLE

FUTURE POLICY OF B.A.S.M.

Message from the Honorary Secretary

For the last eighteen months the British Association of Sport and Medicine has produced the greatest event of its life to date - the World Congress of Sports Medicine and is subsequently getting to a stage of wondering "where next?" While in many respects the Congress was an outstanding success, from a domestic point of view it must be rated as either a failure or a non-event because the percentage of our 600 home members helping with or attending the event was ridiculously small. While the Congress made a good impact in academic medical circles and has certainly raised the threshold of awareness of the existence of sports medicine in the medical profession, there is little sign that it has had a similar impact in the physical education and sports field. The Association has struggled for at least the last five years from one ad hoc meeting to the next, usually staged and presented by the same hard core of enthusiasts. The most noticeable feature of our gradually increasing membership is its non-participation. The Executive Committee is therefore aware of the Association's deficiencies and is contacting all its affiliated associations as a matter of urgency to ask what that section of the membership requires from us.

The example and activities of our Scottish Section serves as a fine example of what the Association can and should be doing and there seems to be no reason why the members South of the border should not be as involved and keen as their Northern brethren. As a positive

step in this direction I am endeavouring to revise the Association's activities during the next year or two in such a way as to try and consolidate our present membership and to try and make it feel more ready to involve itself actively rather than passively in the Association's affairs. I hope that the effect of establishing local area groups and meetings will be more successful than the previous tendency to rely on our meetings as National ones which has always meant that most of the membership will find it difficult to attend. While the Executive Committee can go so far as to set up Regional groups, it falls to the individual members themselves to ensure the success of these activities.

Apart from more Regional Meetings we are trying to hold joint meetings with other local bodies such as physical educationists, physiotherapists, and doctors so that we may both enlarge our fields of interest and hopefully gain the benefit of more new members.

To summarise, in the aftermath of the World Congress the Association finds itself in a static phase with diminished funds and a largely uninvolved membership. I hope in the next year or two to see the growth of keenly involved active Regional Groups.

P. N. Sperry,
Honorary Secretary.

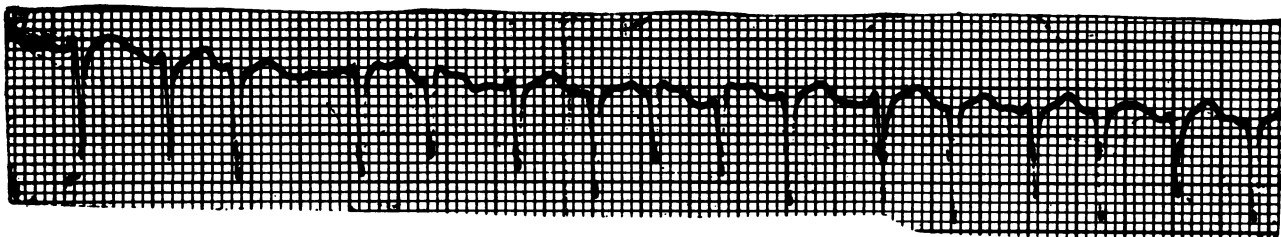


Fig. 3. Arrhythmic ecg recorded with transitory electrodes during Volleyball session.

Transitory electrode

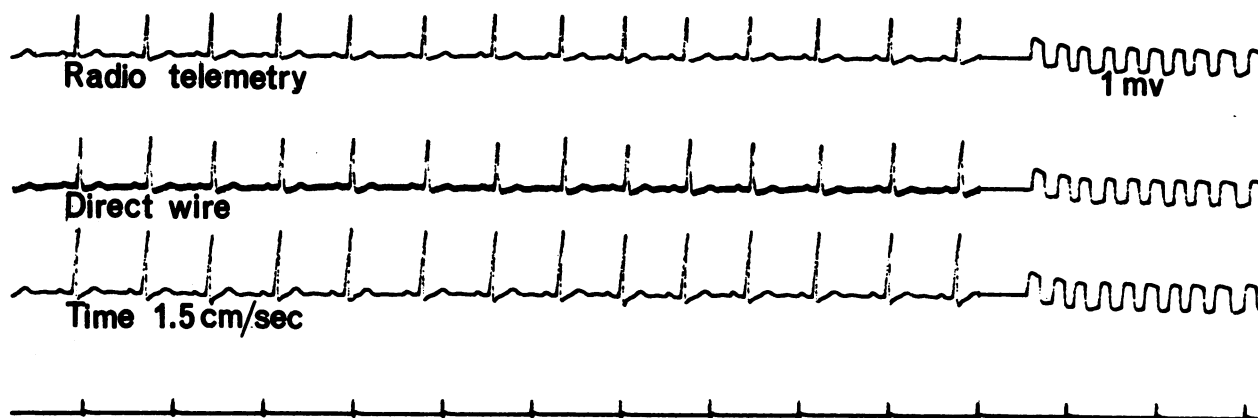


Fig. 4. The ecg of one subject recorded simultaneously by Transitory Electrodes, Radio Telemetry and Direct Wire to a common recorder (A.E.I. Polygraph).

the radio telemetered ecg there are the major advantages of (a) rapid sampling of a number of subjects, and (b) minimal expenditure. Using three electrocardiographs we recently obtained, with ease, 141 recordings from twenty young children taking part in a fifty minute gymnastics lesson. The technique would also appear to be suited to the screening or surveying of middle-age groups taking leisure physical activity, to determine the physiological

loads of the pursuits, or to obtain early indications of clinically abnormal exercise ecg's.

Conclusion

Simplicity, rapidity, comparability and low cost commend this device as suitable for the large scale monitoring of exercise heart rates and ECG wave forms.

THIRD SKI-WORLD-CUP FOR DOCTORS

The Third Ski World-Cup for Doctors will take place on March 17th and 18th, 1972, in the ALPE d'HUEZ (France)

This meeting is intended for all doctors, whatever their degree in ski experience may be - Big Slalom in 2 heats - 3 categories Men under 40 years of age - Men above 40 years and women doctors.

On Friday, March 17th at 17 o'clock* the doctors will meet at a round table conference, having "Ski Medicine" as subject, where they can explain and compare their experience about this problem which concerns all those who practise this sport. * 5 p.m.

A meeting for the wives of doctors is foreseen.

The Doctors who want to receive the programme of these various events can from now on write to the:-

Secretariat de la C.M.S.M., La Balandrie, 08 Balan, France.

HON. SECRETARY'S REPORT

This is the last occasion on which I will have the pleasant duty of presenting to you the Secretary's annual report.

This Annual General Meeting brings to an end one cycle of the Association's activities, and last year has seen the culmination of that cycle in the holding of the 18th World Congress of Sports Medicine in Oxford.

The year began with the Annual General Meeting in Edinburgh, the first time the Association's Annual General Meeting has been held out of London. This was arranged to coincide with the celebration of the Commonwealth Games, and as a recognition of the very large part played by the Scottish Area of the Association in the Association's development in recent years. The Meeting was followed by the second Adolphe Abrahams Memorial Lecture most ably and wittily presented by Professor G. M. Carstairs, and the whole occasion was concluded with a very pleasant and happy dinner. The attendance, particularly at Professor Carstairs' lecture was a source of great satisfaction to us all and it was pleasing to see that so many of our members had travelled from the deep south to attend.

From then on the greater part of the Association's efforts were channelled into the organisation of the World Congress of Sports Medicine, an occasion which, though bedevilled by the weather and by the inadequate arrangements made by our Agents for the Ladies Programme, went down extremely well with our friends from all over the World. We do of course regret that there were not many more of our own people participating, but it is to be accepted that in this Country we are not a race of Congress goers!

Some indication of the amount of work that went into this Congress can be gained from our Treasurer's report which you will already have seen. For my own part I can only once again reiterate in terms which I appreciate to be quite inadequate, my gratitude to the members of the Organising and Executive Committee for all the good work which they did to make the Congress go off so well. While we were all too aware of the backstage crises it does appear that from the "front of the house" the play went off extraordinarily well. As you may well have noted from the accounts the sum for secretarial services was in retrospect ridiculously small. We managed to cope by pruning the Executive set-up almost to the non-viable level. This inevitably meant that contingency planning was virtually impossible, and that while it was accepted that crises would occur these could not be effectively offset in advance. It was clear that they would have to be dealt with as and when they arose on an ad hoc basis. There is no doubt that the majority

of them were effectively dealt with on that basis and this was due entirely to the good humour, hard work and resource of the Executive. In this context I would particularly like to thank Henry Robson, Eric Mackay, John Buck, James Moncur, Eddie Mason, John Currie, Sue Livingston, Brian Seaton, Harry Thomason and Peter Sperryn together with the secretarial staff, Tina Leverett, Barbara Farr and Sally Williams. We must also thank our members of the Salford contingency who provided so effectively a simultaneous translation service.

One of the most pleasant incidents in the whole Congress was the admission to Honorary Membership of the British Association of Sport and Medicine of the President of the F.I.M.S. Professor Giuseppe La Cava, and the President of Honour, Professor Paul Chailley Bert.

Once the Congress was over came the clearing up, and to some extent this continues. I feel that those who were present would agree that taking all things together the Congress went off satisfactorily. To those other members who feel that for example, the financial burden was greater than it should have been, I would simply say "where were you?"

More recently not only the clearing up of the Congress but indeed attempts to arrange future meetings were bedevilled in turn by the electricity and postal strikes. In consequence we have had to postpone until early summer the proposed Symposium on the "Athletes Foot and Ankle" and a number of other projects which we had planned for this year have been put back for consideration and we hope implementation by the next Committee.

The year has seen the further development of the Journal and we are happy to see also an increase in the Association's membership. We regret to announce that it has been decided to discontinue the Diary Service since a number of the Organisations which had agreed to participate subsequently and consistently failed to notify us of their arrangements. We will continue to publish in the Journal such information as we obtain from various sources regarding activities in Sports Medicine both at home and abroad but we will not be extending the service outside the Association.

Looking back not only on the past year but on the past years one can very easily feel depressed at the vista of lost opportunities at the "might have beens" and the "if onlys" but this I think is an un-productive way of looking at things. I prefer to look at the enormous amount that has been done by, for and through the

Association.

When I first joined the B.A.S.M. twelve years ago Sports Medicine was an expression with virtually no meaning, and certainly one which had gained no acceptance in this Country. Membership of the Association was under one hundred and its activities were few. It has been an immense pleasure and a stimulating experience to be associated with the growth of the Association and its activities since then. This is however no time for complacency. In retiring from the Office of Secretary of the Association I am giving concrete form to my belief that the time has come for the Association to be managed in a somewhat different way. Over the past few years the control and guidance of the Association has altered subtly in the hands of Dr. G. G. Browning our Chairman, but having in mind the Association's development I believe that there is no one who will feel that this alteration has not been for its benefit. I believe that this alteration must now go further and I am happy to feel that my successor, Dr. Peter Sperryn is taking over from me. His own experience in modern medical politics, his attitude to Sports Medicine as a whole and the Associa-

tion in particular are exactly such as I believe particularly fit for this task. I am confident that the next phase of the Association's activities will be as exciting, worthwhile and stimulating as was the last.

I would like if I may to conclude by wishing the Association every good fortune for the future and by expressing the hope that it will continue to be what it has justly and proudly become. In the words of the Constitution of the International Federation of Sports Medicine "that organisation which democratically represents the interests of the majority engaged in the actual practice of Sports Medicine in the Country". While the Association and its members hold true to the tenets of its Constitution I am confident that the long term prospects for Sports Medicine in the United Kingdom are good and that we will jointly and severally be able the better to care for the health and well being of the Nation's sportsmen and women.

J. G. P. Williams, F.R.C.S.Ed., D.Phys.Med.

OBITUARY

HORACE LUTHER DAVIES, F.R.C.S.

It is with deep regret that we hear of the death of Horace Luther Davies.

He was one of the earliest members of the British Association of Sport and Medicine and served for several years on the Executive Committee. He represented the Association at the meeting of the F.I.M.S. held in Chile in 1962.

An enthusiastic early pioneer of Sports Medicine he served for several years as Medical Officer of the Womens Amateur Athletic Association, and the English Schools Athletic Association.

Qualifying in 1932 he became a Fellow of the Royal College of Surgeons in 1938 and a Master of Surgery the following year.

He was Consultant in Orthopaedic Surgery at various Liverpool Hospitals until ill-health unhappily caused his premature retirement.

He was recently made an Honorary Member of the British Association of Sport and Medicine for all his services to the Association and to Sports Medicine as a whole.

To his wife and family go our sincere condolences.

BRITISH ASSOCIATION OF SPORT AND MEDICINE

HON. TREASURER'S REPORT FOR THE YEAR ENDING DECEMBER 31st, 1970

As can be seen from the Income and Expenditure Account, most of the expenditure for the year has been on the production of the Journals. Only three numbers were produced during the year, as the electricity go-slow followed by the postal strike delayed the production and distribution of the "December" journal, which was not of course paid for until well after the end of the year under consideration and will account for most of the £400 of Income in excess of Expenditure. But the rise in subscriptions, from two guineas to three pounds for Ordinary Members, from three guineas to five pounds for Affiliated Bodies etc. as authorised at the last A.G.M. is still necessary for the day to day continuation of the work of this Association.

In the balance sheet, this £400 is brought together with £200 odd from the previous year, to give an accumulated fund of £616. £7 is being kept in the Deposit account, to keep it open, and the Adolphe Abrahams Memorial Fund remains at a pathetic £28, which represents an average contribution of 5p from each of our members, and is hardly likely to yield the £30 a year interest needed to endow the annual lectureship.

£350 were advanced from B.A.S.M. general funds to pay the advance expenditure needed for the World Congress, which took place in Oxford in September 1970.

In summary the year 1970 was one in which we spent the money we received, but ran comparatively few meetings or undertook any activities besides the meetings and production of the journal. Most of our efforts were expanded on the World Congress, which increased our prestige nationally and internationally, though it failed to help us financially.

THE WORLD CONGRESS.

The total financial turn over for this, the largest venture undertaken by the B.A.S.M. was in excess of fourteen thousand pounds, and in general the expenditure was almost exactly the amount budgeted for in advance, when the conference fee was calculated. We were bound by the regulations of the International Federation of Sports Medicine to provide simultaneous translation in at least three languages, to provide interpreters for business, scientific and social events, and to provide hospitality for the official National delegates of the various Countries participating in the Congress.

Our financial losses were sustained by circumstances beyond our control. Numerous people submitted papers to be delivered, or booked accommodation, then failed to turn up, although documents etc. had to be provided for them, and the Colleges had to prepare their rooms, buy their food and engage the staff to look after them. Many were from countries where currency regulations prevented them from sending their money in advance, and we were morally bound to pay the Colleges for the facilities we had ordered. We also hoped for much more support from this country, especially from our own members.

A five thousand dollar grant was given by H.M. Government and a few donations were received (£80). A standard Congress fee of a hundred dollars was charged to those attending the full proceedings and included residence in College. Those attending outside social events paid the extra charge. All these fees brought in £10,850 and an additional revenue from letting stand space in the Trade Exhibition brought in a further £870.

Of the £1,380 Secretariat expense, nearly half was taken up with the translation, typing and printing of the Abstracts. The general administration cost only about £800 for the year of intensely hard work needed in the preliminary organisation, the running and the winding-up of the Congress. We were disappointed to find, when the accounts were wound up, that our losses, including the money owed to the B.A.S.M. General Account, were £770 or about 5% of our total turnover. Attempts are still being made to round up the odd delegate whose fees were underpaid, and to prevail upon those who booked but failed to turn up to pay at least part of the money we had to pay out on their behalf.

The subsequent publication of the full Proceedings is another, so far unresolved, problem.

The Treasurer would like to express his thanks to the Auditors, Messrs. Herbert Godkin, of Loughborough, to Drs. Moncur and Mackay who provided help at the Congress, and to Miss Jennifer Brennan who acted as Assistant Treasurer at the Congress and helped with the preparation of the accounts. We are also most indebted to the Midland Bank Ltd. Loughborough and Oxford for all their help in dealing with the vast variety of cheques and cash that poured in.

H.E. Robson.

BRITISH ASSOCIATION OF SPORT AND MEDICINE

BALANCE SHEET AS AT 31 DECEMBER 1970

FUNDS EMPLOYED:

Accumulated Funds:

Balance as at 31 December 1969	207	
Add : Income and Expenditure Account	<u>409</u>	616

Adolphe Abrahams Memorial Fund:

Balance as at 31 December 1969		28
		<u>644</u>
		<u>644</u>

EMPLOYMENT OF FUNDS:

Excess of Current Assets over
Current Liabilities:

Stock of Ties	98		
Amount due in respect of World Congress	351		
Balances at Bank: Current Accounts	513		
Deposit Account	7		
Adolphe Abrahams			
Memorial Fund Account	<u>28</u>	<u>548</u>	
		997	
deduct: Creditors	333		
Amount due to Treasurer	<u>20</u>	<u>353</u>	<u>644</u>
			<u>644</u>

REPORT OF THE AUDITORS TO THE MEMBERS

We have examined the books of account of the British Association of Sport and Medicine, with the exception of those covering the Scottish Area, and we certify that the annexed Balance Sheet and Income and Expenditure Account are in accordance therewith.

Loughborough
14 June 1971

HERBERT GODKIN AND COMPANY
Chartered Accountants

BRITISH ASSOCIATION OF SPORT AND MEDICINE

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 DECEMBER 1970

Members' Subscriptions	1,245	
Sale of British Journal of Sport and Medicine	27	
Donations	6	
Profit on sale of Literary Publications	6	
Profit on sale of Ties	10	1,294
	<hr/>	

deduct:

Cost of Publishing Association Journal	749	
Subscriptions: F.I.M.S.	42	
Other	7	49
	<hr/>	
Stationery and Postages	37	
Conference Expenses	37	
Bank Charges	6	
Audit Fee	7	885
	<hr/>	
Excess of Income over Expenditure for the year		409
		<hr/> <hr/>

XVIIIth WORLD CONGRESS OF SPORTS MEDICINE
HELD BETWEEN 6TH AND 11TH SEPTEMBER 1970, OXFORD

REVENUE ACCOUNT

Grants	2,298	
Donations	80	
	<u>2,378</u>	
Receipts :		
Fees, Congress and Accomodation	10,850	
Exhibitions Fees	869	
	<u>14,097</u>	
deduct : Expenditure :		
Audit Fee	15	
Insurance	62	
Travelling	272	
Refunds of Fees	567	
Opening Ceremony	682	
Social Programme	1,131	
Secretarial and Stationery	1,378	
Interpreters	2,023	
Congress Hall Expenses	2,037	
Accomodation	6,701	14,868
	<u>14,868</u>	
Net Loss		<u>£ 771</u>

BALANCE SHEET

Excess of Current Liabilities
over Current Assets :

Creditors	828	
Balance due to Bankers	298	
	<u>1,126</u>	
deduct : Debtors	355	
	<u>£ 771</u>	
<u>Adverse Balance on Revenue Account</u>	<u>£ 771</u>	

AUDITOR'S REPORT

We have examined the books of account of the XVIIIth World Congress of Sports Medicine and certify the above Revenue Account and Balance Sheet to be in accordance therewith.

HERBERT GODKIN & COMPANY

27th April 1971.

Chartered Accountants



NEWSLETTER



WOUNDED ATHLETE

By Dr. R. Toit McKenzie

JULY, 1971

VOLUME 6

NUMBER 3

The wounded athlete, if it had been finished, would have constituted one of those delightful but secondary works which, though scarcely important enough to be regarded as "capital pieces," are yet admirably adapted for decorative use.

The ACSM Newsletter is produced under the guidance of the Publications Committee by the Public Information Committee of ACSM, Harry Olree, Chairman. Member: Russell Simmons.

American College of Sports Medicine Newsletter: Owned by American College of Sports Medicine, 3034 Stadium, 1440 Monroe, Madison, Wisconsin 53706. Published Quarterly in January, April, July and October at Harding College, Searcy, Arkansas 72143. Second class postage paid at Searcy, Arkansas 72143.

Message from the President

John A. Faulkner, Ph.D.

The President's Message has been a regular item in the Newsletter since Bruno Balke wrote one in Volume 1, Number One, March, 1966. Five presidents have contributed messages and at this stage it is difficult to be original. However, no one else served as President-Elect to President Naughton and this was both a unique and a rewarding experience. John lead the College through a year of real progress with a masterful touch. He left Committees alone when things were going well and he helped when he was needed. His counsel has been invaluable in setting up the format for the coming year. He is going to remain active as chairman of the extremely important Ad Hoc Long Range Planning and Advisory Committee. Our objective for this Committee is to try to set long term directions for the College.

The American College of Sports Medicine is undergoing more rapid change at the present time than ever before in its 17 year history. The College has increased from a few hundred members who all knew one another to over 2,000 members most of whom are strangers to the Officers and Trustees. Immediately behind us is a very successful Annual Meeting held with the Canadian Association of Sports Sciences and hosted by Roy Shephard and his Local Arrangements Committee. Our Annual Meeting has also expanded from the early 1960's when some 24 papers were normally presented to a program of 88 free communications and 32 symposia speakers. These changes are an indication of a healthy growth in Sports Medicine but changes require adjustments. The enlarged membership makes it imperative that the different interests of the College and the different parts of the country be represented on the Board. The total membership must feel represented and that if they have a voice to raise in the affairs of the College that it will be heard. I believe a very encouraging sign is the influx of new people on the Board of Trustees this year. Never before have five new Trustees been elected who have not been on the Board before. I hope that they will bring fresh ideas to the Board and that they will represent a new constituency.

The chairman of the various Standing and Ad Hoc Committees of the College are listed in the report from the Central Office. These people are appointed to serve the membership in the various endeavors of the College. If you have any thoughts, problems, or questions in a specific area, a letter to the appropriate chairman is the best procedure to have it come before the Board.

The Committees of the College, the Administrative Council, and the Board of Trustees have a number of major objectives to attain during the coming year. Kenneth Rose and members of the Budget Committee have brought a number of major items to the attention of the Board that must be resolved to ensure the long term financial security of the College. This includes formation of a Finance Committee and reorganization of the procedures of developing the budget. These will require Constitutional amendments and we hope to proceed with these innovations in time to place the necessary amendments before the Annual Meeting in Philadelphia.

Charles Tipton and his diligent coworkers have worked hard for the past five years on the Membership Drive. David Costill has agreed to chair this Committee in 1971-72 and he has already recruited regional representatives. They are: Jack Wilmore, University of California at Davis; Mike Pollack, Wake Forest University; William Morgan, University of Wisconsin; William Bates, Physical Therapist, Boston Patriots; Edna Wooten, University of Oregon and Jack Daniels, University of Texas. A display booth with a loop film and other promotional materials have been developed during the past year and this will be utilized at selected conventions to recruit interested and qualified persons into the College.

Under the leadership of Nick Nickhah, The Provisional Midwest Regional Chapter of ACSM is flourishing and David Schwartz, in Washington, D. C., has a group functioning that will likely receive a Provisional Regional Chapter this year. We are greatly enthused about the potential of Regional Chapters in providing programs and leadership at the local level. President-Elect Al Craig will continue to chair the Committee on Post-Graduate Education in order to complete the organizational work begun this year on the operating codes. At the Annual Meeting the point was raised on the desirability and the need to have the College take a stand on controversial issues. It is clear that currently procedures are too cumbersome to do this effectively and Al Craig and his Committee are drafting constitutional amendments to rectify the matter.

Medicine and Science in Sports is now so much a part of the College that it is difficult to realize it is only three years old. It is now indexed in *Index Medicus* which should provide the articles with a large audience. The continued growth and development of the Journal is assured under the able direction of Editor-in-Chief Bruno Balke, Managing Editor, Carol Christison, and Chairman of the Publications Committee, Elsworth Buskirk. Charles Tipton has agreed to chair the sub-committee on Journal Advertising.

Carl S. Blyth; Elsworth R. Buskirk; Kenneth S. Clarke; Kenneth H. Cooper, Benjamin H. Massey; Francis J. Nagle; and Allan J. Ryan have retired as officers or from the Board of Trustees this year. Most of these former trustees have had a number of years of service on the Board and three are Past-Presidents. On behalf of the College I thank them. Their experience and counsel will not be lost since several will continue to serve on committees.

A vigorous, interesting and informed membership has been and we hope will continue to be the strength of the College. I look forward to a busy and productive year for the College.

Honor Award

PETER V. KARPOVICH, M.D. Research Professor of Physiology, Springfield College, and past president of the American College of Sports Medicine. Inspiring teacher, dedicated investigator, and pioneer in exercise physiology who is, in large measure, responsible for training a generation of teachers and scientists.

Citations

SAMUEL M. FOX, III, M.D. A distinguished scientist, physician, administrator, writer, and lecturer dedicated to the concept that inactivity, as a potential contributor to heart disease, should be objectively studied. His persistent promotion of the Scientific Evaluation of Physical Activity has made possible many of the research projects on exercise that have been conducted in this country and abroad during the past decade.

THOMAS B. QUIGLEY, M.D., F.A.C.S. Distinguished Orthopedic Surgeon and Physician to the Athletic Department at Harvard University. As teacher, scholar and lecturer he has worked tirelessly for the development of Sports Medicine in the United States.

STEVEN MICHAEL HORVATH, Ph.D. Pioneer in balancing the capacity of the soldier to withstand heat stress against the severity of tropical environments he may face in combat; a leader of today in expanding the horizons of exercise physiology, a field he first explored in the Harvard Fatigue Laboratory.

Report on the 1971 Annual Business Meeting

The Executive Secretary's report indicated that for the second year in a row, membership gains for ACSM have reached record numbers. The Membership Committee, under Dr. Charles Tipton's chairmanship for the second year, is responsible for an increase of 401 members. This is even more impressive when one considers that the figure of 401 is a net increase. New member applications processed actually numbered 459. The pattern of membership across the country has not changed as we still have members in 48 states, the District of Columbia, Puerto Rico, Guam and 22 foreign countries.

One minor amendment was adopted clarifying the requirements for admission to ACSM as a Member. This change will be circulated to the membership when new constitutions are mailed from the Central Office.

Dates and sites for future annual meetings were announced as follows: 1972 — Philadelphia, Pennsylvania, Sheraton Philadelphia Hotel, May 1-3; 1973 — Seattle, Washington; 1974 — Knoxville, Tennessee; 1975 — New Orleans, Louisiana. The exact dates for the 1973, '74 and '75 meetings will be selected from within the first two weeks of May in the respective years. These dates along with the hotel will be announced at a later date.

The composition of the Board of Trustees for 1971-72 is as follows:

OFFICERS:

John A. Faulkner, Ph.D.
Albert B. Craig, Jr., M.D.
Clayton L. Thomas, M.D.
Wayne D. Van Huss, Ph.D.
Philip D. Gollnick, Ph.D.
J. Grove Wolf, Ph.D.

BALANCE OF THE BOARD:

Fred L. Allman, Jr., M.D.
Bruno Balke, M.D.
R. James Barnard, Ph.D.
Louis F. Bishop, M.D.
Richard W. Bowers, Ph.D.
John L. Boyer, M.D.
Clifford L. Brownell, Ph.D.
David L. Costill, Ph.D.
Herbert A. de Vries, Ph.D.
Roy F. Goddard, M.D.
Albert S. Hyman, M.D.
Ernst Jokl, M.D.
Frank Jones, Ed.D.
Peter V. Karpovich, M.D.
Howard G. Knuttgen, Ph.D.
Leonard A. Larson, Ph.D.
William D. McArdle, Ph.D.
Henry J. Montoye, Ph.D.
Grover W. Mueller, M.S.
John P. Naughton, M.D.
N. P. Neilson, Ph.D.
Josephine L. Rathbone, Ph.D.
Kenneth D. Rose, M.D.
Roy J. Shephard, M.D., Ph.D.
James S. Skinner, Ph.D.
Charles M. Tipton, Ph.D.
Hugh G. Welch, Ph.D.

EX OFFICIO MEMBERS:

Robert E. Colcher, M.D.
Harry D. Olree, Ed.D.

Chairmen of Standing Committees

Awards and Tributes:

Henry J. Montoye, Tennessee University

Budget:

Kenneth D. Rose, Nebraska University

Constitutional and By-Laws:

Wayne D. Van Huss, Michigan State University

Credentials:

Hugh G. Welch, Tennessee University

History:

Allan J. Ryan, Wisconsin University

Interdisciplinary Coordination:

John Boyer, San Diego State University

Membership:

David Costill, Ball State University

Nominating:

Albert B. Craig, University of Rochester

Post-Graduate Education:

Albert B. Craig, University of Rochester

Public Information:

Harry D. Olree, Harding College

Publications:

Elsworth R. Buskirk, Penn State University

Chairmen of Ad Hoc Committees

Long Range Planning and Advisory:

John Naughton, George Washington University

International Activities:

Robert Colcher, Valley Forge Medical Center and Hospital

Annual Meeting Dates and Sites:

John Boyer, San Diego State University

Program Committee:

Albert B. Craig, University of Rochester

Exhibits:

Howard Knuttgen, Boston University

Journal Advertising:

Charles M. Tipton, University of Iowa

Local Committee on Arrangements:

Robert Colcher, Valley Forge Medical Center and Hospital

The following Members have attained Fellow Status:

John Fitzgerald Duff, M.D.

Danvers, Mass.

Bruno Hans Geba, Ph.D.

Novato, Calif.

Stanley J. Gralewski, M.D.

Oshkosh, Wisconsin

Jerry D. Julian, M.D.

Austin, Texas

William R. Williams, Ph.D.

University of Florida

J. G. Williams, F.R.C.S.

Farnham Park Rehabilitation Centre

Slough, Bucks, England

Albert H. Toyne, F.R.C.S., M.B.B.S.

Victoria, Australia

James S. Thoden, Ph.D.

School of P. E.

Ottawa, Canada

Robert H. Pike, M.D.

Fort Collins, Colorado

Frank E. Papsy, Ph.D.

Albuquerque, New Mexico

Petar J. Mitrevski, M.D.

Long Beach, Calif.

Albert W. Taylor

Fitness Research Unit

University of Alberta

John E. Greenleaf, Ph.D.

NASA, Ames Research Center

Donald H. Hardin, Ph.D.

University of Texas

Mohan Singh, D.P.E.

University of Alberta

Joseph H. Spearling, M.D.

Harlan, Iowa

Jack H. Wilmore, Ph.D.

Cupertino, California

Donald E. Hoganson, M.D.

Berlidge Clinic Ltd.

Alan R. Morton, Ed.D.

University of Western Australia

James A. Baley, Ph.D.

Jersey City State College

John A. Bergfield, M.D.

U. S. Naval Hospital, Annapolis

Alfred B. Corrigan, D.P.M.

Sydney, N.S.W., Australia

Thous L. Doolittle, Ph.D.

Edmonds, Washington

Guest Editorial

The American College of Sports Medicine has had many momentous events in its young history. Yet, none has surpassed the development of its quarterly *Journal* and more recently the publication of the *Encyclopedia of Sports Science and Medicine*. The latter represents the completion of a dream generated many years ago by such stalwarts as A. S. Hyman, L. A. Larson, J. Wolfe and other founders of the college. Although most of the college membership was aware of the existence of this ongoing project, few could conceive or appreciate the magnitude of the dream. Now, the *Encyclopedia* is a reality, and on first inspection, this writer must admit the sense of awe that overcame him while thumbing through a text unlike any other that he had read or reviewed before. There is little doubt that the *Encyclopedia* will serve as a Keystone in the continuing dialogue between physi-

sician, basic scientists and physical educators that occurs in the forum of the American College of Sports Medicine.

I am sure that it would not be possible to list all of those who were involved in the creation of the *Encyclopedia*. But there is little doubt that the membership of the College owes a great debt of gratitude to those who contributed uncounted hours to its organization and editing, and to those hundreds of authors who researched the available literature and compiled the reports which made the *Encyclopedia* the masterpiece it is.

As my term has ended I can only express a tremendous sense of pride in this accomplishment. However, I also realize that this milestone represents but one potential of our organization, and therefore, I anxiously await the next major undertaking which will give the ACSM its sense of mission and of leadership in the health fields.

Past President John Naughton

ACSM

Individuals intending to apply for Advancement to Fellow keep in mind that it is now necessary that your application for Advancement be accompanied by two letters of recommendation on your behalf written by Fellows of ACSM. Signatures alone of Fellows who may wish to vouch for you are no longer adequate. This is in accordance with new Board policy. The schedule for Advancement to Fellow is as follows:

Deadline for Submission of Application	Board Action	Notification of Results
1. August 1	November	Immediately following November Board of Trustees Meeting
2. February 1	May	At or immediately following Annual Meeting

Members

BRITISH ASSOCIATION OF SPORT AND MEDICINE

Bibliography of Sports Medicine

Since 1962, The American Academy of Orthopaedic Surgeons, through its Committee on Sports Medicine, has endeavored to improve the orthopaedic health care services needed by the American athlete. The original concept included the development of periodic national postgraduate continuing education courses for orthopaedic surgeons interested in applying their skills in the athletic setting, a goal which has long been a fact. To fulfill its primary mission, the Committee is also engaged in other activities that help stimulate local and regional efforts by the orthopaedist in a multiple disciplinary approach with other physicians, coaches, educators, and athletic trainers.

Sports medicine is indeed an interdisciplinary interest. The orthopaedic surgeon with responsibilities for handling athletes and athletic programs finds quickly that these responsibilities go beyond orthopaedic surgery. Any professional person sharing these responsibilities, despite his orientation, finds the need to learn from others.

Bibliography of Sports Medicine was initiated to pull together in convenient fashion recent articles (essentially 1964 into 1970) representative of the interdisciplinary contributions to the supervision and care of the active young and old. A cross-index of 175 categories precedes the listing of over 1300 entries to assist in locating references of interests. Some would not be found by customary indices available in libraries — another advantageous service of this publication.

Distribution of the Bibliography is expected to begin in October 1970. The American Academy of Orthopaedic Surgeons is making the publication available as a public service at the price of \$2.00 each (postpaid), \$1.50 each if ordered in lots of 25.

* * * *

CONTEMPORARY READINGS IN SPORT PSYCHOLOGY

William U. Morgan, Ed., F.A.C.S.M.

Individuals from Various disciplines have been interested in the psychological bases of muscular activity for many years, but the field of sport psychology has lacked any sort of formal orientation until lately. Several recent symposia suggest that this specialized area of inquiry is becoming somewhat formalized.



On-line Computer Analysis of Cardiovascular, Metabolic and Respiratory Function during Exercise

J. H. Wilmore and W. L. Haskell
Preventive Medicine Center
Palo Alto, California

Members, ASCM

A totally automated exercise stress testing facility has been developed by a group of physicians, bioengineers, exercise physiologists and computer programmers, and is currently in operation at the Preventive Medicine Center in Palo Alto, California. Through the use of a dedicated minicomputer and accessory equipment, a system has been designed which performs an on-line analysis of various cardiovascular, metabolic and respiratory functions during exercise testing. In addition, the minicomputer controls various aspects of the exercise test, including timing sequences, respiratory aliquoting, respiratory gas analysis, EGG strip chart activation, ergometer load or treadmill grade and speed changes, and other mechanical aspects of the typical

treadmill or bicycle exercise test.

During the test, the computer calculates and then displays in real time on a CRT monitor, the elapsed time, the ergometer load and rpm's or the treadmill speed and slope, heart rate, magnitude of ST segment displacement if any, blood pressure, VE, VO₂, VCO₂, and R.Q. The computer is also programmed to detect EGG arrhythmias, any of which trigger an audio and visual alarm system and activate the strip chart. Immediately at the completion of the test, all data are typed out sequentially by a teletype and selected parameters are plotted relative to time on a plotter interfaced to the computer. Data handling, reduction and plotting are completed within 10 minutes after the termination of the test. The entire test, including data acquisition and processing, requires the presence of only one individual other than the subject.

PHYSICIAN'S HANDBOOK ON EXERCISE

Introduction

We live in a highly mechanized society. Life in such a society requires much less physical exertion than that demanded of our ancestors in primitive times. As a result of inactivity our bodies are threatened by earlier deterioration.

Research has linked increased incidence and morbidity from coronary disease to inactivity. It has also showed that regular exercise aids in the promotion and maintenance of health and well being. As more people of all ages become aware of and concerned about the possibilities of promoting and maintaining health through a regular exercise program, they are seeking professional advice from physicians about exercise, or, unfortunately, jumping into do-it-yourself exercise programs without forethought. When the need for help arises, the physician should be prepared to help each patient with the problem of determining whether he is ready for a particular kind of exercise and to suggest exercise suited to age, health, and life style. The physician needs a handbook of information to guide him in evaluating cardiovascular and physical fitness of individuals who seek help and to provide him with answers to questions that may be raised by groups in the community.

To meet the physician's need the American Heart Association is cooperating in releasing this Physician's Handbook prepared by the Tennessee Heart Association's Physical Exercise Committee after the October, 1969, Gatlinburg Conference. This was an outgrowth of the work of consultants and participants at the National Conference on Exercise in the Prevention, in the Evaluation, and the Treatment of Heart Disease, Myrtle Beach, South Carolina, 1969. An official AHA position paper, based on evidence relating exercise to cardiovascular health is in preparation.

This Handbook provides guidelines for clearing a patient for a supervised exercise program, outlines absolute and relative contraindications to exercise, and notes important precautions, especially cardiovascular and orthopedic ones. By following the prescribed steps in the Handbook a physician should be able to give clearance for safe, healthful exercise programs. As physicians use the Handbook throughout the country it is hoped that new interest in exercise testing will be stimulated and that better health and healthier hearts will result.

(The Handbook is available for \$1.50 from the Tennessee Heart Association, 205 22nd Ave., Nashville, Tenn. 37203).

6th WORLD CONGRESS OF CYBERNETIC MEDICINE

Organized by the International Society of Cybernetic Medicine

5 - 9 April 1972 – Roma - Italy

Languages: Italian, French, English.

MAIN TOPICS

- 1) Medimatics and Computer Science
- 2) Bioengineering
- 3) Brain Cybernetics
- 4) Advanced Rheumatology
- 5) Automation of Health Care

Free Themes could be eventually accepted

The text in three copies, not exceeding six typewritten pages, enclosed tables and illustrations and one page abstract, must be sent before February 1st, 1972.

Slides 5 x 5 cm. Leica, and Films 16 mm., can be projected.

Subscription fees: 60 dollars for active members, 40 dollars for each family member.

Should cancellation be made prior 1st March, 1972, total refund is granted.

The Committee has the faculty of changing in part, or totally, the programme.

All correspondance relating to scientific programme and general information should be addressed to:

International Society of Cybernetic Medicine – SIMC - 348, Via Roma - 80134 NAPLES (Italy)

MEETING OF OTHER ORGANISATIONS

International Meeting

JORNADAS INTERNACIONALES DE MEDICINA DEPORTIVA

Valencia 9th, 10th and 11th December 1971

In the Great Hall of the Faculty of Medicina of Valencia

There will not be a Subscription Form for Membership, which will be effected by payment of the following sum:

Member of the Congress	..	..	..	..	1500 pesetas
Accompanying the Member	..	..	..	..	750 "
Full Membership	..	..	..	..	2000 "

into the current account No. 20068 of the Banco de Santander, Head Office/Branch Valencia. This payment can be made by Giro or transfer to the above account, and by then sending a duplicate of such payment with details of the name etc., to the Secretary of this Organisation.

Viajes Marthe hold a number of rooms reserved in various Hotels to meet the expected demand.

The date limit for application for Membership was 15th November so we ask you to apply immediately as those which arrive late will indeed be attended to but with the possibility of having to delay acceptance of Membership.

Further information from:—

Dr. J. G. P. Williams, Farnham Park Rehabilitation Centre, Farnham Royal, Slough, Bucks.

(Notice received October 27th, 1971 – Editor B.J.S.M.)

BOOK REVIEW

“The Encyclopaedia of Sports Sciences and Medicine,” American College of Sports Medicine

Executive Editor: L. A. Larson

Price: £20

This enormous work initiated in the early 1960's has at last come to fruition in a volume of over 1,700 pages.

Dr. Larson and his co-workers have surely produced a reference book to end all reference books in the field of Sports Medicine. One must sincerely hope that for the future regular supplements will be produced by way of updating.

As would be expected from a work of this size involving an immense panel of contributors from different countries the standard of the content is patchy. Furthermore the format prohibits all but a carefully selected short list of references for each subject. Nevertheless as a work of reference for the critical user who can pick material selectively this is an immensely valuable publication and contains a vast treasury of information.

There can be little doubt that no serious student of the specialty and its related disciplines will be found without the Encyclopaedia and it is certainly a must for all Institutions involved in the Study of Sports Medicine and its constituent Disciplines.

The price is of course high but no less than should be expected for a magnum opus of this type.

J. G. P. Williams, F.R.C.S.Ed., D.Phys.Med.

NEW MEMBERS

The following have been elected by the Executive Committee on June 26th, 1971.

Ordinary Members

Dr. J. Bullard, 2027 Urbana Road, Calgary 44, Alberta, Canada. Proposed by H. E. Robson.
 Mrs. Patricia Davies, M.C.S.P., 75 Manchester Road, Wilmslow, Cheshire. Proposed by F. A. Davies.
 Miss Jane Fielding, M.C.S.P., 5 Grove Park, London S.E.5. Proposed by P. Sperry.
 Mr. R. J. Garrett, M.C.S.P., Royal Herbert Hospital, Woolwich, London S.E.18. Proposed by W. A. Shillibeer.
 Miss Priscilla Lord, B.Sc., 27 Kensington Court, London W.8. Proposed by L. Denham.
 Mr. R. W. McLaren, Dip.P.E., 185 McGregor Road, Cumbernauld, Glasgow. Proposed by J. Moncur.
 Dr. C. M. Morton, 13 Scarisbrick New Road, Southport, Lancs. Proposed by H. E. Robson.
 Mr. R. Murray, B.Sc., 19 Boyd Street, Galston, Ayrshire. Proposed by J. Moncur.
 Mr. John Pinches, D.L.C., 3 Langdale Avenue, Loughborough, Leics. Proposed by H. E. Robson.
 Mr. A. C. Robertson, Dip.P.E., 8 Hunters Hill, Penicuik, Midlothian. Proposed by J. Moncur.
 Mrs. Robertson, Dip.P.E.,
 Mr. S. S. Rose, F.R.C.S., 135 Palatine Road, West Didsbury, Manchester 20, Proposed by J. Brooke.
 Dr. M. S. Walsh, Cartontroy, Athlone, Co. Westmeath. Proposed by H. E. Robson.

Affiliated Membership

Pingle School, Coronation Street, Swadlincote, Nr. Burton-on-Trent, Staffs. Represented by Mr. A. R. Bradshaw,
 D.L.C., (already an ordinary member B.A.S.M.) Proposed by A. R. Bradshaw.

Representatives nominated by Affiliated Organisations

For British Horse Society.

Dr. A. S. Johnson, 81 Birmingham Road, West Bromwich, Staffs.

For Charlton Athletic Football Club

Dr. F. James, 588 Woolwich Road, London S.E.7.

The following have been elected by the Executive Committee on November 4th, 1971.

Ordinary Members

Mr. D. E. Baldwin, MCSP., R.A.F. Wegberg, B.F.P.O. 40. Proposed by I. Dunstall.
 Dr. G. T. Bowra, Boots Ltd., Research Division, Nottingham, NG2 3AA. Proposed by H. E. Robson.
 Mr. K. L. Brown, Dip.P.E., M.C.S.P., 18 Carolside Avenue, Charleston, Glasgow. Proposed by J. Moncur.
 Mr. I. Hussell, M.A., Dip.P.E., 101 Clermiston Road, Edinburgh, EH12 6VV. Proposed by J. Moncur.
 Mr. A. Jacques, M.S.R.G., Physiotherapy Dept., R.A.F. Hospital, Cosford, Wolverhampton, Staffs. Proposed by W. Eales.
 Mr. E. F. Lee, M.S.R.G., 17 Wimbourne Avenue, Broxe Hill, Ipswich, Suffolk, IP3 8QW. Proposed by T. Douglas.
 Mr. J. R. McClure, Dip.P.E., 8 Montgomerie Terrace, Ayr. Proposed by J. Moncur.
 Mr. R. J. Marsden, Dip.P.E., 79 Southern Road, Sale, Cheshire. Proposed by H. E. Robson.
 Mr. W. P. Morgan, Ed.D., University of Wisconsin, Madison, Wisconsin, U.S.A. Proposed by A. Ryan.
 Mr. D. R. Williams, Dip.P.E., 2180 Souvenir Avenue No. 9, Montreal 108, Canada. Proposed by R. Farrally.

Affiliated Membership

Manchester United Football Club, Old Trafford, Manchester, M16 0RA. Represented by Mr. L. Brown, M.C.S.P.
 Proposed by H. E. Robson.

Change of Addresses

Mr. B. Abrahams, 28 Arthur Road, GOOSEBERRY HILL, Western Australia.
 Mr. P. G. Britton, Ph.D., Dept. of Psychology (4th floor), Claremont Place, NEWCASTLE UPON TYNE, NE1 7RU.
 W/O H W. A. Hepplewhite, MSRG, U.K. Support Unit, S.H.A.P.E., B.F.P.O. 26.
 Lt. E. T. James, R.A.N., 92 Chifley Street, SMITHFIELD, N.S.W., Australia.
 Dr. M. Jegathesan, 19 Road, 11/12 Petaling, JAYA, Malaysia.
 Mr. C. R. Raeburn, 46 Claremont Street, ABERDEEN.
 Mr. D. P. Thomas, B.Ed., Dept. H, PE & R, Temple University, PHILADELPHIA, Pennsylvania 19122, U.S.A.
 Mr. B. Waite, DLC., 22 St. Margaret's Street, ROCHESTER, Kent.
 Miss Marian Watts, 20 Briar Hill Walk, NORTHAMPTON, NN4 9LN.

Resignations with effect from December 31st 1971.

Miss Hazel Barratt, MCSP.
 Dr. A. Violet Cyriax.
 Mr. J. A. Gerrard, DLC.
 Mr. A. I. L. Maitland, FRCS.
 Mr. S. F. A. Miskin, Putney.
 Post-graduate Medical Centre, Teesside.

Death

Mr. H. L. Davies, F.R.C.S.