

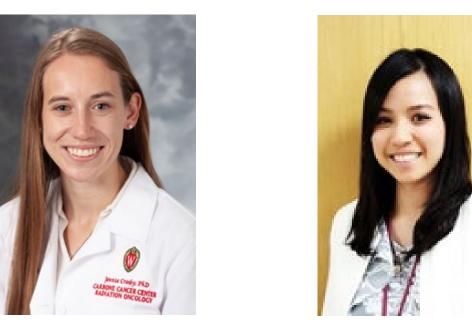
Ashley Tao & Alison Arnold (Acknowledgements: Gemma Davies, Wesley Culberson, Ahpa Plypoo, Jennie Crosby)

Formation of the North Central Chapter (NCC) was first considered in 1970; proposed constitution, by-laws and geographical boundary was discussed during the 1973 RSNA at the Blackstone Hotel. The first meeting was held April 5,1974 in Madison, WI and was a joint meeting with the NCC Health Physics Society. John Cameron served as the Temporary Chairman and Acting Secretary.

William R. Coolidge Award John R. Cameron (1980) William Hendee (1989) Frank H. Attix (1994) Faiz Khan (1999) Bhudatt Paliwal (2002) Rock Mackie (2014)

Marvin M. D. Williams **Professional Achievement** Award Faiz Khan (1998) Bhudatt Paliwal (2002)



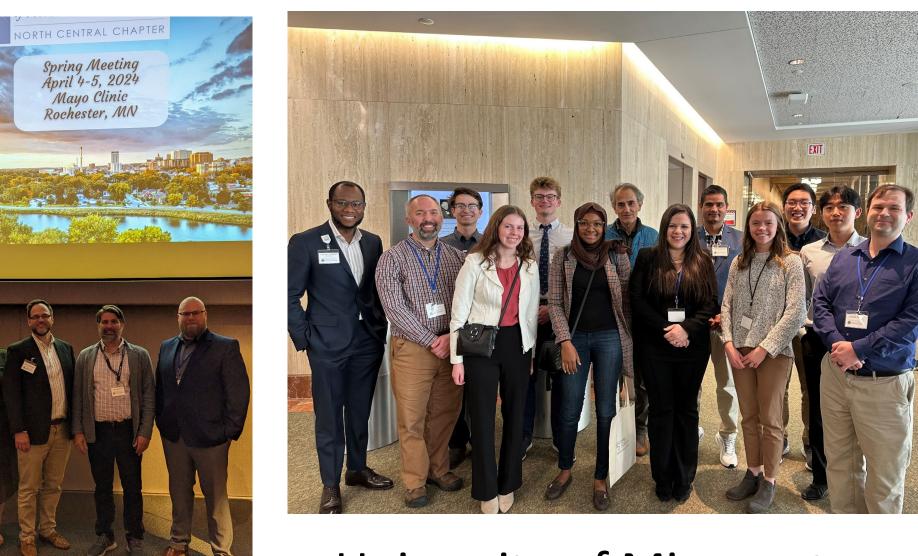


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2023-2024 Chapter Officers: Left to right: Wesley Culberson (Chapter Board Representative) Alison Arnold (President-Elect) Ashley Tao (President) Gemma Davies (Secretary-Treasurer), Mitchell Carroll (Past-President) – not pictured

Incoming Chapter Officers Left to right: Jennie Crosby (President-Elect) Ahpa Plypoo (Secretary-Treasurer)

Spring 2024 – April 4-5, 2024 Specialty Symposium on Theranostics



Hot Topics:

TG 100

Proton Therapy

Join us November 8, 2024 in

Madison, WI as we plan another

University of Minnesota Medical Physics Group



10

Joint Meeting with NCC Health Physics

Society (HPS), Assisi Heights, Rochester, MN

E McCollough (2005)

Edith Quimby Lifetime Achievement Award Larry DeWerd (2015)



Carolyn Eckrich (UW – Madison) Winner NCC-AAPM Med Phys Slam

Early Career Investigator Winners: 1st: Kevin Treb (Mayo Clinic) 2nd: Emily Koons (Mayo Clinic)

From the Archives:







Spring Meeting of the North Central Chapter of the AAPM

Friday, May 13, 1994, Froedtert Hospital, Medical College of Wisconsin, Milwaukee, WI (see reverse for

directions and listing of motels). Registration Fee of \$15.00 for Full Members. Let Joel Felmlee know you

AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE

NORTH CENTRAL CHAPTER John R. Cameron, Ph.D. University of Wisconsin Department of Physics Madison, WI 53706 (608) 262-2170

April 10, 1974

Minutes of the Meeting of the NCC-AAPM

The meeting of the NCC-AAPM was held in Madison, Wisconsin on Friday, April 5, 1974

This was the first scientific meeting of our new Chapter and the program was arranged by President-Elect and Program Chairman, Dick Lane. Professor Dick Moran of the Physics Department, University of Wisconsin, gave an invited talk on New Developments in Solid State Dosimetry and followed this talk by a short report on Nuclear Magnetic Resonance and its possible use in the detection of cancer. The talks were interesting and well received.

The meeting was held in the Wisconsin Center building and was coordinated with the NCC-HPS meeting that was held in the same room in the afternoon. About thirty individuals attended the NCC-AAPM meeting, most of whom are members of the Chapter.

At approximately 11:30 A.M. President Ray Boge opened the business meeting and asked for a report from the new Secretary-Treasurer, John R. Cameron, in regard to our status as an official Chapter of the AAPM. The secretary reported that we had submitted our official applications November 13, but the AAPM committee that is to consider a new Chapter did not meet at the time of the AAPM-RSNA meeting and no action was taken. Dick Riley of Kansas City is the committee member looking after our interests and he reported that he has circulated our papers to the other committee members and only two had responded. It is likely that we will be approved by the time of the meeting in Kansas City.

Cameron also reported that we now have 55 members, most of whom are full members of the AAPM.

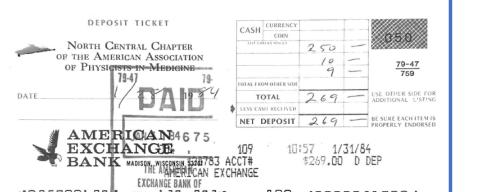
The next item of business was the matter of establishing a dues structure for the Chapter. Dick Lane moved and Roger Stano seconded that the dues be established at \$2.00 per year. After a brief discussion this motion was passed unanimously. There was a brief disucssion of a lower dues for student members and it was decided that it would not be necessary at this time.

The next item of business was to consider whether our Chapter wishes to be a joint sponsor for a special Radiotherapy-Medical Physics meeting in Madison on October 24 and 25 on time-dose relationships. The primary sponsor of the meeting is the Wisconsin Society of Therapeutic Radiologists. The Chapter was

assured that no financial demands would be made on our Chapter in relation to the meeting. Ed McCullough moved and Chuck Wilson seconded that we agree to be a joint sponsor for the meeting. After a brief discussion the motion was passed unanimously.

The President asked if anyone felt there is a need for any standing committees. Vaughn Moore suggested that we should only establish committees when there is an expressed need for them. This seemed to be the feeling of other members also.

ohn Cameron pointed out that the executive committee of the Chapter has



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Osseo, MN 55369 (612) 425-1959 ANSWERING SERVICE February 1, 1984

Richard Geise Midwest Radiation Consultants, Inc 10315 Boundary Creek Terrace Maple Grove, MN 55369

J. Joseph Allen St. Luke's Hospital

Radiation Oncology 2900 W. Oklahoma Ave Milwuakee, WI 5321

Joseph Anderson Mayo Clinic, Desk R Therapeutic Radiology Dept. 200 First St. S.W. Rochester, MN 55901

Lloyd W. Asp Rt. 5, Box 32AB Bowling Green, KY 42101

David F. Belden Radiation Measurements, I

Box 327 7617 Donna Drive Middleton, WI 53562

R. Jerome Boge Gunderson Clinic, Ltd. Radiation Oncology Dept. 1836 South Ave. LaCrosse, WI 54601

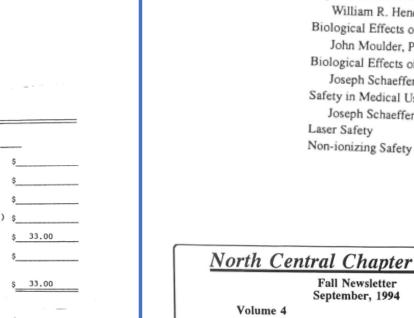
William L. Dunn Diagnostic Nuclear Medicine L66 Hilton Bldg. Maus Clipic

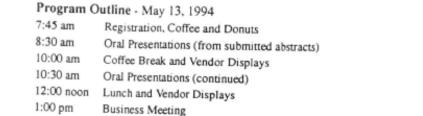
Mayo Clinic Rochester, MN 55901

J. Douglas Bennet 1717 Woodbury Lane Duluth, MN 55803

F. Herbert Attix Univ. of Wisconsin Medical Physics Div Madison, WI 53706

Telephone answering service from to Balance forward Basic charge for first 50 calls Additional calls Copy service - (Note: As of this date, copies will now be 20c.) \$_____ Typing service - Type membershi of American As Mailing services Balance due





are attending so an approximate count can be given for the luncheon.

1:45 pm Non-Ionizing Radiation Session (Invited Speakers) 3:15 pm Coffee Break and Vendor Displays

3:30 pm Non-Ionizing Radiation Session (Invited Speakers) 5:00 pm Close of Meeting

Afternoon Session: Non-Ionizing Radiation - Biological Effects, Risks, and Safety

Physics of Non-ionizing Radiation William R. Hendee, PhD, Med. College of Wisconsin Biological Effects of Extremely Low Frequency (ELF) Radiations (Power Frequencies) John Moulder, PhD, Med. College of Wisconsin Biological Effects of Microwave/Radiofrequency Radiations Joseph Schaeffer, PhD, GE Medical Systems Safety in Medical Uses of Lasers, MR, Hyperthermia (others?) Joseph Schaeffer, PhD, GE Medical Systems Non-ionizing Safety in Consumer Products

ervice - Type membership for North	h Central Chapter \$33.00			
of American Assoc. of Phy services	\$		Chapter - AAPM	Brachytherapy and the Medical Physicist
due	\$		iber, 1994 Number 1	Michael T Gillin, Ph.D. Radiation Oncology Medical College of Wisconsin
Thank you.	P2 2/5/1241	From the Editor I would like to thank the members who have contributed articles to this newsletter. All members are encouraged to submit contributions for the spring newsletter. I also welcome comments, both pro and con, as to the format and content of the	Physics News From the desk of Tom Payne, Ph.D. I will complete my second and last term as the chair of the ACR Physics Commission on September 21, 1994. My replacement will be Don Tolbert, Ph.D If you have any burning issues, I am sure that Don would welcome a word from you.	The 1994 AAPM summer school, modern Clinical Brachytherapy Physics, helped focus the attention of the medical physics community on brachytherapy. In addition to the normal issues, such as source calibration, dose calculation, and plan evaluation, this school also discussed the role of the medical physicist in brachytherapy activities. This discussion was very timely in view of the activities of the Institute of Medicine's Committee for Review and Evaluation of the medical Use Program of the Nuclear Regulatory Commission and the publication of TG 40, Comprehensive QA for Radiation Therapy. The IOM Committee has 3 medical physicists on it, including Bill Hendee, Ph.D., and is approximately 9 months into a 24 month review and evaluation. This committee has been asked to provide the NRC with recommendations on "a uniform national approach to the regulation of ionizing radiation in all medical applications". TG 40 Section V is entitled Brachytherapy and has major subdivisions on sealed sources, treatment planning and dosimetry, and remote afterloading.
AMIERICAN A	TRAL CHAPTER THE ASSOCIATION DF IN MIEDICINE	newsletter. Any suggestions for other columns and features will also be appreciated. In order to save some postage expenses, this newsletter will be distributed to all members attending the fall meeting, and mailed to those not in attendance. Submissions should be mailed, or Faxed to me at the following address: Michael K. Garrity, Ph.D. North Central Physics and Dosimetry 2837 14th Av. S.E. St. Cloud, MN, 56304 FAX: St. Cloud Hospital Radiation Oncology (612) 255-5730	FDA MQSA: The program officially starts Oct. 1, 1994. The FDA will be operating under interim rules for one year. The FDA is currently working to establish final rules. There is some concern as to the final definition of a "Qualified Medical Physicist". The ACR has no plans to change their basic definition but the FDA is now the responsible party and can make any changes they deem appropriate. The ACR as well as the AAPM will be involved in working with the FDA. Any concerns can be brought to my attention. <i>Tom Payne</i>	The current version of 10 CFR 35 does not require a brachytherapy physicist, even for high dose rate facilities. It also does not require brachytherapy source calibration, although the calibration of HDR sources is most likely required in each license. Part 35 contains, however, very specific requirements on accountability of sources, room posting, and radiation surveys. The regulatory guide for the NRC Quality Management Program contains specific recommendations relative to the activities of the medical physicist. TG 40, the ACR Physical Aspects of Quality Assurance, and other documents help define the standards of practice for brachytherapy, including medical physics activities. Thus we have a situation where medical physics services are recommended and defined by various professional organizations, but not required by regulations or law. This is not a strong position, especially in times of tightening budgets. It is my own personal opinion that each institution who is licensed to provide brachytherapy services should be required to identify a 'brachytherapy requirements and practice standards pertaining to brachytherapy are met. It is in our professional interests to receive acknowledgment that medical physics services are an integral part of brachytherapy and that patients and the general public are better served when appropriate medical physics services are provided by qualified medical physicist.
		Mike Garrity	"Movers and Shakers" (New and Relocated Members)	Job Opportunity
	D84 P DIRECTORY	Officers for 1994 Past President: Mike Garrity President: J. Daniel Bourland President Elect: Russ Ritenour Secretary /Treasurer: Tony Murphy Board Rep.: Bruce Thomadsen	Brent Colby - From Gunderson LaCrosse to Fargo Dan Marvel - From Hawaii to Gunderson LaCrosse Patrick Higgins - Resident at U of M from Cleveland Clinic, Cleveland OH Dimitris Mihailidis - New resident at U of M Welcome and/or Congratulations!	3D Treatment Planning Physicist in CT Simulation needed in the Philadelphia, PA area to manage customer sites and conduct Beta testing on new software releases. The successful candidate will have at least three years clinical experience in treatment planning with knowledge of 2 1/2 (preferably 3D) planning. Board certification would be a plus. Candidate will be working on the new Acquisim CT Simulation program. Excellent verbal and written communication skills are necessary since the candidate will be dealing with clients and customers. Person will have both routine and developmental responsibilities. Please send or fax CV to: Randy Shute 6005 Peachtree Parkway, Ste. 340-118 Notcross GA, 30092 Fax: 404-663-0070
		I he following article is the third in a series	or's Note: by John Cameron on Radiation Quantities and stimulate scientific discussion of these topics.	(cont'd from p.3) Conclusions: (1) This definitive study can be considered good evidence that at least for the
		What the Radium Dial Painter Studies Tell Us		osteogenic sarcoma, there is a significant threshold. If it were to be expressed in equivalent dose to the skeleten [it] would be about 20,000 rems. (2) It is unlikely that the Q value for alpha particles in this case is 20. Professor Evans estimates that it is more likely about 3.
THE NORTH CENTRAL CHAPTER		About Current Radiation Protection Dogma		(3) The stochastic model of cancer induction is not valid for radiation induced
OF THE		John Cameron		osteogenic sarcoma.
AMERICAN ASSOCIATION OF PHYSICISTS IN MEDICINE		P.O. Box 405		An up-to-date summary of the studies of radium dial painters is in preparation by C. Maletskos together with professor Evans. Dr. Maletskos assures me that the present results
Membership List January 1984 <u>A</u> <u>C</u> seph Allen John R. Cameron uke's Hospital Univ. of Wisconsin tion Oncology Medical Physics		I was embarrassed earlier this year to discover that I [had] forgotten an important paper I read nearly twenty years ago. Radium in Man by Robley Evans was published in the November 1974 <i>Health Physics Journal</i> (pp 497-510). It was called to my attention by several people, including the author. The author was speaking to me from a video tape made about 1978. He was being interviewed in the Vignettes of Radiology, a series of one hour videos in which Lauritson Taylor interviewed various pioneers in radiology. The series was sponsored and funded by the Bureau of Radiologial Health (BRH), now known as the Center for Devices and Radiological Health (CDRH).		support the essential features of the results published in 1974. A final report of the radium dial painters done at Argonne national Laboratory has been prepared by Dr. Robert Rowland and is to be published in the near future. I have not been able to obtain a preprint copy of the report. Although radium has quite different radiation characteristics from the more common, x-rays, gamma and beta rays, the data in Professor Evans paper should give us confidence that radiation isn't as dangerous as they say. An analysis of the long term health status of radium dial painters in the US and in the UK- a
W. Oklahoma Ave. akee, WI 53215 h Anderson Clinic, Desk R peutic Radiology Dept. irst St. S.W. ster, MN 55901	1300 University Ave Rm. 1530 Madison, WI 53706 Yu Kong Chan St. Mary's Hospital Radiation Oncology Dept. 2320 N. Lake Dr. Milwaukee, WI 53211	is founded in the belief that radiation induced is, doubling the dose, doubles your chances o	lation protection is based on the linear, non - operties of ionizing radiation are "dangerous" a sasumption gives us the As Low As he basis for assuming that there is no threshold cancer is a random or stochastic process. That f a radiation induced cancer.	total of about 3000 women - indicates that the women who didn't develop bone cancer had significantly lower death rates from causes other than cancer as reported on p. 67 of Health Effects of Low Level Radiation by Schei Kondo. Co-published by Kinki University Press, Osaka Japan, and Medical Physics Publishing, Madison WI (1993). John Cameron
W. Asp , Box 32AB ng Green, KY 42101 srbert Attix of Wisconsin of Physics Div	Anthony Chung-Bin Rush-Presbyterian Medical Ctr. Medical Physics Sect. 1753 W. Congress St. Chicago, IL 60612 <u>D</u>	author pioneered in studies of the radium dial	of many of these women extended over many	
al Physics Div. ion, WI 53706 <u>B</u> I F. Belden stion Measurements, Inc. 327 Donna Drive	E Paul M. DeLuca, Jr. University of Wisconsin Medical Physics Department - Rm. 1530 1300 University Ave. Madison, WI 53706 Larry A. DeWerd	detectable radiation induced osteogen	dose from radium less than 1000 rads had any	
Donna Drive Leton, WI 53562 ouglas Bennet Woodbury Lane th, MN 55803	University of Wisconsin Department of Radiology Medical Physics Division Madison, WI 53706	 This incidence rate was essentially rads cumulative dose to the skeleten. 	constant at ± 6% from 2000 rads to over 50, 000 1'd on p.4)	
LII, MA 99009	William I. Dunn			-

Preliminary Program)

8:30 - 9:00 am Registration and Continental Breakfast

1:00 – 2:00 pm

2.00 - 3.00 pm

9:00 - 9:15 am Welcome and Announcement Randall Kruger, President, NCCAAPM

L to R: Carrie Hruska, Abby

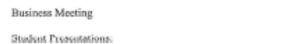
Besemer, Tyler Bradshaw,

Bryan Bednarz, Stephen

- 9:15 9:45 am The Megavoltage Grid: A Clinical Experience Jeff Limmer, MS Ed, MSc, DABR - UW Cancer Center, Wausau
- 9:45 10:15 am Dosimetry in Intracavitary Breast Brachytheropy Bruce Thomadsen, Ph.D., Associate Professor, Department of Medical Physics, University of Wisconsin

10:15 - 10:45 am Coffee Break (Vendor display area)

- 10:45-12:00 pm Fernande Issues and the Medical Physicist: Navigating the Reimbursement Maze in the U.S. Healthcare System Jerry White, MS
- 12:00 1:00 pm Lunch



Properties of Ion Exchange Resin Beads Incorporating Iron Ions for Use in a Three-Dimensional Ionising Radiation Desimeter John A. Bauhs, MS

Preliminary Analysis of an OSL Powder Dosimeter Victor Weir, MNc.

Inter and Intra Observer Variations and Patient Characteristic Correlations in EPID Resed Prostate Localizatio Chris Beltran, Ph.D.

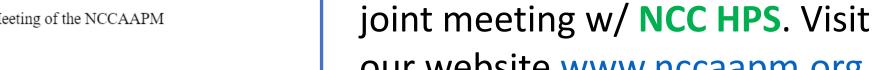
Comparison of Intensity-Modulated Stereotactic Radiotherapy with Stereotactic Conformal Radiotherapy for Intracranial Tumors Carmen Kmety-Stevenson, Ph.D.

3:00 - 3:15 pm Coffee Break (Vendor display area)

- Accreditation, Certification and Maintenance of Certification in Medical Physics: The 3:15-3:45 pm Need for Convergence William Hendee, Ph.D., Medical College of Wisconsin (Research, Tech, Informatics)
- 3:45 4:30 pm Tomotherapy: Clinical Experience Rick Crilly, Ph.D., Rapid City Regional Hospital (Radiation Oncology)

Meeting Conclusion 4:30 pm

Corporate Sponsors Spring 2004 Meeting of the NCCAAPM





William Hendee speaks about the

how it will impact scientific journals.

transformation of scientific publishing and

... years ago







President Ehsan Samei congratulates NCC-AAPM on 50 years virtually.



Dimitris Mihailidis speaks about TG359: **FLASH** radiation dosimetry

an opening for a past president. Cameron suggested that Al Orvis would make an excellent past president but Al declined the honor and suggested that Vaughn Moore have this honor. It was moved that Vaughn serve on the Executive Committee for this year. The motion was seconded and passed unanimously.

There was a discussion of the time and location of the next meeting. It was felt that we should not have our regular meeting in conjunction with the special meeting in Madison since there would be a \$25.00 attendance fee for that meeting. It was suggested that the meeting could be held in LaCrosse, Marshfield or Rochester, Minnesota. There seemed to be a preference for LaCrosse as it is centrally located in the Chapter and Ray Boge offered to look after the local arrangements. No final decision was made. The Executive Committee will try to determine the feelings of the Chapter and make a decision sometime during this summer.

The President asked if there were any other matters of interest. John Cameron reported on a job opening for a Medical Physicist in Winstom Salem, North Carolina and also invited all of the participants of the meeting to come to his apartment following the afternoon session of the NCC-HPS meeting for light refreshments.

There was a motion for adjournment which was seconded and passed unanimously at approximately 12:10 P.M.

Respectfully submitted, The John R. Cameron, Secretary JRC:mw

American Association of Physicists in Medicine

Announcing the Fall Meeting of the North Central Chapter of the American Association of Physicists in Medicine to be held Saturday, September 14, 1974 at the: Main Auditorium LaCrosse Lutheran Hospital LaCrosse, Wisconsin

Meeting Program

10:30 a.m. Registration (\$3.00 includes lunch Coffee and rolls to be served

Vaughn Moore, University of Minnesota "Quality Control in Radiation Therapy 11:00 a.m. 11:45 a.m.

Business Meeting - Agenda to include discussion of possible NCC-AAPM sponsorship of Annual AAPM Meeting and Summer School in the late 1970's

12:15 p.m. Lunch (included in Registration Fee) 1:15 p.m.

Guest Speaker John Laughlin, Memorial Sloan Kettering Cancer Center Historical Development of the Therapeutic Application of High Energy X-Ray and Electron Beams

Melvin P. Siedband, University of Wisconsi Quality Control in Diagnostic Radiology 2:15 p.m.

3:00 p.m. Tom Payne, University of Minnesota Quality Control in Nuclear Medicine

To conserve time coffee will be available during the discussion period following each speaker's format presentation.)

Social Hour (Soft drinks and snacks to be served) An opportunity to talk informally with the speakers and also to tour the Department of Radiation Oncology of the Gundersen Clinic, Ltd. 3:45 p.m.

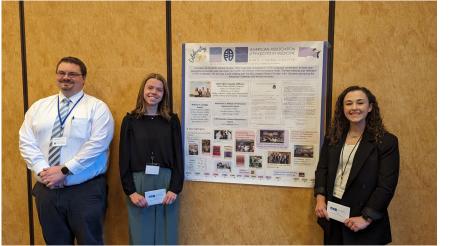
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The Association's Official Scientific Journal is Physics in Medicine and Biology sponsored jointly with the (British) Hospital Physicists' Association and Medical and Biological Physics Division, Canadian Association of Physics.

contains he ACR s of ation ul specially ho is erapy atory n ed when rea to essful t verbal ith ities.	Med-Tec, Inc. (Amanda Susemihl) Tomotherapy, Inc. (Patty Kitowski) Unfors Instruments, Inc. (Ed Brand) IMPAC Medical Systems, Inc. (Robin Clawson) Scanditronix Wellhofer North America, Inc. (Eric Flemming) Siemens Medical Systems, Inc. (Audrey Fredrich) Sun Nuclear Corporation (James Ernsberger) CMS, Inc. (Chris Smith) Standard Imaging, Inc. (Keith Nelson) Philips Radiation Oncology Systems (Kirk Wuerfel)				
]	American Association of Physicists in Medicine American Association of Physicists in Medicine Department of Radiology 1120 15th Street (AE2018) Augusta, GA 30912 Phone: 706-721-3601 Fax: 706-721 E-mail: jallison@mail.mcg.edu				
in	April 5, 2004				
vr	David D Loshek, PhD Marshfield Clinic Radiation Oncology 1000 N Oak St Marshfield WI 54449				
sults	Dear Dr. Loshek,				
wland of the	In order to provide for timely election and installation of Chapter Board Representatives, I am advising AAPM Chapters of the process and schedule.				
-rays,	Please see the attached page for an excerpt from AAPM By-Laws relative to election and installation of Chapter Board Representatives.				
JK-a had ealth	E. Russell Ritenour currently serves as Chapter Board representative for the North Central Chapter. Dr. Ritenour's term of office will end on 12/31/05.				
Press,	According to AAPM By-Laws, the process for succession is as follows:				
	Prior to the AAPM Annual Business Meeting in Seattle, WA in 2005, the North Central Chapter should elect a Chapter Board Representative to replace Dr. Ritenour.				
	At the AAPM Annual Business Meeting in Seattle, WA in 2005, I will report the name of the new Chapter Board representative for the North Central Chapter.				
	The term of office for the new Chapter Board Representative for the North Central Chapter will begin on January 1, 2006 and will continue until December 31, 2008.				
	Please contact me if you have any questions.				
	Sincerely,				
	Jerry Dallison				
	Jerry D. Allison, PhD Ce:				
	E. Russell Ritenour Jeffrey Limmer Randell Kruger				
	Jason Rownd				







Early Career Investigator Winners (R to 1st: Autumn Walter (UW-Madison) 2nd: Grace Hutchinson (U. Minnesota) 3rd: Alexander Niver (UW-Madison)