


**SOUTH AFRICAN
MEDICAL PHYSICS
SOCIETY**



**SUID-AFRIKAANSE
MEDIËSE FISIKA
VERENIGING**



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VERSLAG VAN VOORSITTER: 2000/2001

CHAIRMAN'S REPORT: 2000/2001

1. EXECUTIVE COMMITTEE

Chairman:	Dr W A Groenewald	
Secretary / Treasurer:	Dr H du Raan	
Members:	Mrs N Coetzee	(Professional Committee)
	Prof C Herbst	(Previous Chairman)
	Prof A Janse van Rensburg	(CPD Committee)
	Mr Q Connel	(Publicity Committee)

The executive committee met on two occasions in September 2000 and in March 2001. A third meeting is scheduled to be held during the SAAPMB congress in Bloemfontein in June 2001.

2. VOORTGESETTE PROFESSIONELE ONTWIKKELING (VPO)

Die VPO Komitee, onder voorsitterskap van prof Ado Janse van Rensburg, het by twee geleenthede vergader. Die Komitee het aanbeveel dat (i) die puntestelsel van die geneeshere ook deur die mediese fisici gebruik sal

word, (ii) die bestaande akkrediteurs by die mediese fakulteite vir akkreditasie van aktiwiteite gebruik sal word en (iii) die Vereniging as 'n aktiwiteitsverskaffer sal optree soos by die aanbied van die jaarkongres en die somer- of winterskool

Die Mediese Beroepsraad het ons versoek om die aanvang van VPO aktiwiteite uit te stel vanaf 01 Januarie 2002 tot 'n datum wat later bepaal sal word. Die rede vir hierdie versoek is die administratiewe probleme wat met VPO registrasie van geneeshere ondervind word. Die gedagte is nog steeds om in die jaar voor die amptelike aanvang van VPO 'n nie-amptelike toetsprogram te volg.

3. AFRA

The Field Management Committee of AFRA (*African Regional Co-Operative Agreement for Research, Development and Training related to Nuclear Science and Technology*) approved a medical physics project in September 2000. The title of this project AFRA I-2 is "*Strengthening Regional Capability in Medical Physics*". The project will run from 2001 to 2005. This is good news for our medical physics community since

attention will be given to harmonising of education programmes and codes of practice.

The first activity in South Africa under this new project will be a Task Force Meeting to be held in Bloemfontein from 18 to 22 June 2001. Codes of Practice in Radiotherapy and Harmonising of Education Programmes in Medical Physics will be discussed. A project co-ordination meeting will be convened in Rabat, Morocco in November 2001 and the second meeting in South Africa is scheduled to take place in Cape Town in October 2002. This will be a workshop on Relative Dosimetry in Radiotherapy.

4. OPLEIDING VAN MEDIESE FISICI

Prof M G Lötter en dr W A Groenewald het op uitnodiging die Vergadering van Direkteure van Menslike Hulpbron Departemente van die onderskeie provinsies op 09 November 2000 in Pretoria bygewoon. 'n Voorlegging oor die gebrek aan Mediese Fisika Opleidingsposte is aangebied. In hierdie voorlegging is daar gewys op die ernstige tekort aan mediese fisici en die onrusbarende afname in die getal geregistreerde mediese fisici sedert 1996. Een van die ooglopende redes vir die afname in geregistreerde fisici is die feit dat die opleiding van mediese fisici in die afgelope vyf jaar prakties tot stilstand gekom het aan sommige opleidingsentra. Die redes hiervoor is menigvuldig; die oorskakeling na CORE wat gelei het tot 'n gebrek aan opleidingsposte asook die rasionalisasie van mediese fisika poste in die provinsiale sektor. Die direkteure van Menslike Hulpbronne het onderneem om ondersoek in te stel na die beskikbaarheid van opleidingsposte en ses opleidingsposte is reeds in die Vrystaat en Wes-Kaap geskep. Intussen het die Nasionale Versnellersentrum ook 'n program vir die opleiding van mediese fisici in bedryf gestel.

5. HPCSA COMMITTEE FOR SCIENCE

A recommendation of the Committee to amend the term "medical physicist in training" to intern medical physicist was confirmed by the Medical and Dental Professional Board.

6. SKAKELING MET SASRO (SUID-AFRIKAANSE VERENIGING VAN STRALINGSONKOLOË)

Die UK het in gesprek getree met dr Leon Gouws, die voorsitter van die Suid-Afrikaanse Vereniging van Stralingsonkoloë (SASRO) oor die

voorgestelde Riglyne vir Besoldiging. Dr Gouws het aangedui dat SASRO die gedagte van riglyne steun, maar voorstel dat 'n kort taakoms krywing vir elk van die genoemde pligte opgestel word. Die UK gee aandag aan so 'n taakoms krywing. Op versoek van SASRO sal 'n taakoms krywing van pligte opgestel word.

'n Gesprek is ook met dr Gouws gevoer oor die moontlikheid dat SASRO lede in die privaatpraktyke by die opleiding van mediese fisici betrokke raak bv. deur beurstoekennings aan voornemende studente. 'n Brief in hierdie verband is aan SASRO gerig.

7. LIAISON WITH INTERNATIONAL ORGANISATIONS

7.1 IOMP

Prof W J Strydom represented SAMPS on several IOMP meetings during the "World Congress on Medical Physics and Bio-Engineering" in Chicago, July 2000.

Prof van Aswegen was re-elected as chairman of the IOMP Professional Relations Committee for the term 2000-2003. Prof W J Strydom was elected as committee member on the Education and Training Committee, Professional Relations Committee and the Award and Honour Committee. Hanlie du Raan has been requested to serve on the financial committee of the IOMP. I want to congratulate these members on behalf of the society with their achievements. Their high level involvement in the IOMP lends international prestige to our society.

7.2 EUROPEAN FEDERATION OF ORGANISATIONS FOR MEDICAL PHYSICS (EFOMP)

Contact was made with the secretariat of EFOMP and information on requirements for membership is awaited.

8. MEMBERSHIP

The society presently has 61 members and 14 associate members.

9. CONDOLENCE

On January 2001 the society lost a highly respected member in the person of Dr David Schackleton. David Schackleton significantly contributed to the advancement of medical physics both in the academic environment and in private sector

10. BEDANKING

Graag wil ek my dank en waardering teenoor die lede van die Uitvoerende Komitee uitspreek vir hulle harde werk en lojaliteit in die afgelope jaar. Dit is nodig om die sekretaris/tesourier, Hanlie du Raan spesiaal te bedank vir die akkuraatheid en pligsgetrouheid waarmee sy haar portefeulje bestuur het.

W A Groenewald

NUUSBRIEF / NEWSLETTER

2000 / 2001

DEPARTMENT OF MEDICAL PHYSICS AT MEDUNSA.

Staff:

Prof. Strydom continued his work with the IAEA with contributions.
Mr. Daniels attended the BEAM course at the NRCC, Ottawa, Canada.
Mr. S Maage and Mr. S Bakhane resigned to join NAC as from January 2001.
Mr. N Mandiwana submitted his M.Sc. thesis for evaluation and will graduate in May 2001.

Mr. Alan Chamberlain and Cathy were richly blessed with the birth of their son, Edan.

Academic activities:

News on the RADIATION DOSIMETRY THRUST Training Workshop - "Advanced MCNP Course" that was held in the department of medical physics at MEDUNSA from 22 - 25 May 2000 is that it was attended well. The course participants from other centres included Dr. Dennis A Allen (University of Birmingham, Manchester, United Kingdom), Dr. CA Willemse and Mr. F Du Plessis (Free State University), Mr. C Ndiweni (Vista University), Mr. H Haricharun (ESCOM), Mr. S Ntungwane and Mr. Z Karriem (NECSA).

One of our major achievements is the collaborative opportunity with external attendees, having learnt their applications of the MCNP code. As with many other workshops the networking between centers was discussed and encouraged. This group of participants will make every attempt to sustain any further networking and MEDUNSA has to play a significant role in this regard.

In-service training for registration with HPCSA - Mr. DPA Maboe (registered for M.Sc. in medical physics), Mr. S Ntungwane from NECSA, Mr. B Nkwayim-Ndamkou, Mr. S Bakhane (registered for M.Sc. in medical physics), and Mr. S Maage (registered for M.Sc. in medical physics)

Research:

The main research activities of the department are in the field of radiation physics, radiation dosimetry and medical imaging. The department received a grant from the NRF.

Papers / posters presented at national meetings:

- * Strydom WJ, Chamberlain AC. Calculation of phantom scatter factor at different depths for beams with different qualities. IOMP Congress in Chicago (23 - 28 July 2000)
- * Strydom WJ, Chamberlain AC. Calculation of phantom scatter factor at different depths for beams with different qualities. 40th Congress of the SAAPMB (Durban)
- * Van Reenen OR, Nuclear Medicine in Skeletal Imaging - an interactive CD presentation. South African Society of Nuclear Medicine: Millenium Congress (Bloemfontein)
- * Van Reenen OR, Information Technology in medical Education at Medunsa. Medical Education and Information Technology in South Africa
- * Jordaan MM, du Toit MD. Post evaluation of I-125 seed implant for treatment of prostate cancer. 40th Congress of the SAAPMB (Durban)
- * Chamberlain AC, Brain Tumor Radiotherapy using a Beta Emitting Isotope Cocktail. 40th Congress of the SAAPMB (Durban)
- * Mandiwana N, Comparison of the TG-21 and the 1987 IAEA protocols for photon and electron beams. 40th Congress of the SAAPMB (Durban)

Publications:

- * Chamberlain AC, Sathekge MM, Clauss RP, Strydom WJ. Radiation dosimetry of craniopagus twins during Tc99m-DTPA and Tc99m-HMPAO studies. Physica Medica, April - June 2000, Vol.16, No 2, p69-73.
- * White AJ, Ahmed A, Clauss RP, Venkannagari R, Sathekge M. The slope of the thyroid uptake curve of 99mTc pertechnetate and its relationship with TSH levels in euthyroid and hyperthyroid patients. Tijdschrift voor Nuclear Geneeskunde, 2000, Vol. 22, No. 3, p1-4.

* White AJ, Rachalewska M, Venkannagari R. A simple method for measuring severely reduced glomerular filtration rate. J Nucl Med Technol (2000);173-175.

* White AJ. Image quality of bone scans and patient hydration. J Nucl Med Technol (2000); 28:289.

Published CD:

* Clauss RP, Van Reenen OR. Skeletal Imaging in Nuclear Medicine (ISBN 0-958 3822-2-0) Medunsa.

Achievements:

* Prof W J Strydom was elected as member of the Education and Training Committee of the IOMP for the year.

* Prof W J Strydom was elected as member of the Professional Committee of the IOMP for three years.

* Prof W J Strydom was elected as member of the Awards ad Hons Committee of the IOMP for three years.

* Prof WJ Strydom was asked to act as a consultant for the IAEA at a meeting from 2 - 6 October 2000 in Vienna on a Syllabus for Medical Physics in the field of Radiotherapy.

* Prof WJ Strydom was send on an expert mission by the IAEA as a lecturer in Medical Physics to the Parirenyatma Hospital in Harare Zimbabwe as part of a project to improve clinical Radiotherapy for two periods of two weeks each.

Service aspect:

Assisted in specification compilation of new Multi-slice Spiral CT Scanner for Ga-Rankuwa Hospital that will be installed in 2001.

Compiled by Mr. F Daniels

PRETORIA ACADEMIC HOSPITAL

Every dark cloud has a silver lining.

Despite the fact that we were down to a single medical physicist we have also experienced one of the best years.

Good luck to Quintin who has returned to his roots in Scotland to practice medical physics there. I am sure he will be a good ambassador for the quality of physicist we produce here is SA.

At long last we have a student again. Emma Mercer joined us via the US from Brittain. At least she has the theory behind her and allready has proved her worth.

Chistmas Father visited our department for a change! We are quite pleased with the CMS Focus planning system which can take us into the 21st century.

Finally we have got our first patent under the belt and am confident that some good will come from the "Boere IMRT".

TYGERBERG HOSPITAAL EN DIE UNIVERSITEIT VAN STELLENBOSCH

Shivani Ghoorun het verlede jaar vir 'n periode van drie maande vanaf 14 Augustus tot 9 November 2000 in Leuven en Gent in België deurgebring. Sy het opleiding ontvang en praktiese ervaring opgedoen in die gebruik van beeldverwerking programmatuur wat by die Universiteit van Leuven ontwikkel is. Hierdie programmatuur is ingevolge 'n navorsingsooreenkoms tussen die Universiteite van Stellenbosch, Leuven en Gent nou ook by die Departement Kerngeneeskunde in Tygerberg Hospitaal geïnstalleer en word met groot sukses gebruik.

Shivani's time in Europe also gave her the opportunity to attend two international conferences viz, the EANM Congress in Paris and the IEEE Conference on Medical Imaging in Lyon, France.

Op 1 September 2000 het mev Gillian Swart 'n hoof radiografis vanaf Conradie Hospitaal by mediese fisika aangesluit. Sy is primêr verantwoordelik vir die administrasie van die stralingsmonitordiens en ook vir die koördinasie van die gehaltebeheerprogram op diagnostiese x-straaleenhede in Tygerberg Hospitaal.

Ons het op 31 Augustus 2000 afskeid geneem van Erhardt Korf, eerste mediese fisikus in ons departement. Erhardt het 'n aanstelling gekry as praktykbestuurder by die Radioterapie Afdeling van die Netcare Southern Cross Hospitaal in Wynberg. Die pos wat Erhardt beklee het, is tans vakant en ons kyk uit vir 'n mediese fisikus wat belangstel om na die skone Kaap te verhuis.

Louise Prins het aan die begin 2001 met haar internskap in mediese fisika begin. Sy het in M.Sc in Fisika en het reeds twee jaar gelede die mediese fisika modules vir die Honneursgraad suksesvol aan die universiteit van Stellenbosch voltooi. Na onderhandeling met die Departement Menslike Hulpbronne van die Provinsiale Administrasie Wes-Kaap is 'n nuwe opleidingspos vir mediese fisici by Tygerberg Hospitaal geskep. Hierdie pos is tans beskikbaar vir belangstellende kandidate.

The Department of Nuclear Medicine has very recently acquired a Hermes workstation, primarily for the link between the nuclear medicine departments of Windhoek and Tygerberg Hospital. The system boasts the latest algorithms for all aspects and this could lead to some interesting projects.

DEPARTEMENT GENEESKUNDIGE FISIKA - UNIVERSITEIT VAN DIE VRYSTAAT

HOOGTEPUNTE:

1. Prof. A van Aswegen is verkies as President van die SA Vereniging van Kerngeneeskunde.
2. 'n Voorgraadse kursus B.Med.Sc. in Stralingswetenskap en 'n Nagraadse vir opleiding van Geneeskundige Fisici Diploma is ingestel.
3. Die **Chris Jansen Medalje** vir buitengewone navorsingsbydrae tot Kerngeneeskunde is deur die Suid-Afrikaanse Vereniging vir Kerngeneeskunde aan Dr. H du Raan toegeken.
4. Die **Muller Potgieter Medalje** vir beste nie-kliniese publikasie in die Fakulteit Geneeskunde is aan Prof. A van Aswegen en medewerkers toegeken.
5. Drie voltydse M.Med.Sc. in Geneeskundige Fisika het ingeskryf; twee Intern Geneeskundige Fisici ondergaan opleiding en vyf voorgraadse beurse vir Geneeskundige Fisika is toegeken.

LAAGTEPUNTE:

1. Vier departementslede bedank – drie fisici gaan na privaatpraktyk.

GEBEURTENISSE:

- a) Mev. MA Sweetlove word 'n babadogter ryker.
- a) Dr. H du Raan verwag haar eersteling in Junie.

I AKADEMIES

1. PERSONEEL

- b) Aanstellings:

R Loretz (Geneeskundige Fisikus) en Sussan Acho (Geneeskundige Fisikus).
Mnr. W Shaw (Assistent Geneeskundige Fisikus), Mnr. KM Moji (Assistent Geneeskundige Fisikus), HV Maselesele (Assistent Geneeskundige Fisikus),

- b) Bedankings:

Mnr. N van der Merwe (28/2/01)
Mnr. PD du Toit (31/5/00)

Mnr. JS Engelbrecht (31/7/00)
Mnr. G Kemp (31/5/00)

2. AKADEMIESE AKTIWITEITE

a) ONDERRIG

Nuwe kursusse

Die graad B.Sc. Stralingswetenskappe is ingestel vir 2001. Die doel van die graad is om op voorgraadse vlak alreeds studente in Geneeskundige Fisika en Stralingsbiologie in te neem.

'n Nagraadse Diploma vir Geneeskundige Fisika is ingestel vir 2002. Studente wat as Interns Indiensopleiding voltooi, sal die diploma verwerf.

2.1 Voorgraads:

Kursusse word voorgraads aangebied in:

Menslike Voeding
Verpleegkunde

Arbeidsterapie
MBChB I & II

Vyf PAO beurse is toegeken aan voorgraadse studente in Geneeskundige Fisika.

2.2 Kursusse word nagraads aangebied vir:

Geneeskundige Fisika vir Onkoterapie B.Med.Sc.
Stralingsfisika B.Med.Sc.
Geneeskundige Fisika vir Fisioterapie M.Sc.
Geneeskundige Fisika vir Anesthesiologie M.Med.
Geneeskundige Fisika vir Diagnostiese Radiologie M.Med.
Geneeskundige Fisika vir Interne Geneeskunde M.Med.
Geneeskundige Fisika vir Radioterapie M.Med.

Geneeskundige Fisika vir Oftalmologie M.Med.

2.3 Nagraadse kwalifikasies en toekennings:

Med.Sc. toegeken:

K. Awusi M Med Sc (Sept 2000)
J Marais M Med Sc (Maart 2001)
N Mdletshe M Med Sc (Maart 2001)

2.4 Eksterne Eksaminator

Prof. A van Aswegen MMed, Mediese Fisika, MEDUNSA
Fisika vir Anesthesiologie, Kollege van
Geneeskunde
OVS Technikon

Prof. A van Aswegen Nasien van verhandeling van student in Kairo

Prof CP Herbst B Rad (Diag) 111 - Mediese Fisika vir
Kerngeneeskunde Medunsa.
B.Sc.Med. Hons – Mediese Fisika in
Radiologie – Medunsa.
Henrietta Stockdale Verpleegkunde Kollege –
Kimberley.
Free State School of Nursing – Welkom.

b) NAVORSING

MNR-toekennings

Prof. A van Aswegen: Reconstruction and registration of cardiac stress and rest reoriented gated SPECT myocardial perfusion images.

Dr CA Willemse: Improved 3D treatment planning techniques.

Mediese Fisika vir Kerngeneeskunde

Pieter du Toit: M. Med Sc: Evaluation of a scanning transmission line source for attenuation correction with single photon emission computed tomography.

3. BYWONING VAN KONGRESSE/KURSUSSE EN REFERATE GELEWER

Member of the SA ASSOCIATION OF PHYSICISTS IN MEDICINE AND BIOLOGY, and the INTERNATIONAL ORGANIZATION FOR MEDICAL PHYSICISTS
Lid van die SA VERENIGING VAN FISICI IN GENEESKUNDE EN BIOLOGIE en die INTERNASIONALE ORGANISASIE VIR MEDIESE FISIKA

a) Internasionale kongresse

1. A van Aswegen, J Marais, SE Jansen, AC Otto en MG Lötter. A comparison of glomerular filtration rate values determined using four radionuclide techniques in healthy volunteers. World Congress on Medical Physics and Biomedical Engineering, Chicago, 23-28 July 2000.
2. H du Raan, Europese Kerngeneeskunde Kongres, Parys, Frankryk, 2-6 September 2000.
3. CA Willemse en FCP du Plessis. Werkswinkel oor Monte Carlo Behandlingsbeplanning, Organiseerder: Departement Stralingsfisika, Stanford Universiteit Mediese Skool, San Francisico, 7-11 November 2000

b) Nasionale Voordragte

1. MG Nel, AC Otto, M Dunn, MP de Jager, R Barry, JA van Staden. Pre-operative localisation of parathyroid adenomas with ^{99m}Tc-sestamibi. SASNM Congress, Bloemfontein, 2000.
2. SE Jansen, L Goedhals, A van Aswegen, MG Lötter, AC Otto. Comparison of calculated creatinine clearance and radionuclide glomerular filtration rate as indicator of renal function. SASNM Congress, Bloemfontein, 2000.
3. PD du Toit, H du Raan, MG Lötter, A van Aswegen. Determination of attenuation coefficient conversion from transmission to emission in tomography measured using two scintillation camera collimators. SASNM Congress, Bloemfontein, 2000.
4. J Marais, A van Aswegen, MG Lötter. Organ activity quantitation with planar radionuclide imaging. SASNM Congress, Bloemfontein, 2000.
5. GHJ Engelbrecht, AC Otto, JA van Staden, MG Lötter, G Kemp. The effect of unifocal ventricular premature beats on the myocardial distribution of ^{99m}Technetium-sestamibi - A case report. SASNM Congress, Bloemfontein, 2000.

6. N Mdletshe, H du Raan, A van Aswegen, MG Lötter, J van Staden. An evaluation of attenuation and scatter correction in myocardial perfusion studies. SASNM Congress, Bloemfontein, 2000.
7. AC Otto, MG Nel, GHJ Engelbrecht, M Dunn, A van Aswegen, M Nel. Enhanced myocardial contractility associated with increased exogenous Ca^{2+} . SASNM Congress, Bloemfontein, 2000.
8. NJ van der Merwe, CP Herbst, O Hachinene and R Loretz. The use of an Aluminium stepwedge for quality assurance of Diagnostic Radiology equipment. SAAPMB [Y2k/50]th Congress, Durban, 2000.
9. PD du Toit, MA Sweetlove, A van Aswegen, CP Herbst, C de Vries. Determination of the effectiveness of radiation protection when a lead glass visor is used during radiological fluoroscopy. SAAPMB [Y2k/50]th Congress, Durban, 2000.
10. FCP du Plessis and CA Willemse. Monte Carlo Principles and applications in Radiotherapy. SAAPMB [Y2k/50]th Congress, Durban, 2000.
11. FCP du Plessis and CA Willemse. Monte Carlo principles and applications in Medical Physics. SAAPMB [Y2k/50]th Congress, Durban, 2000
12. N Mdletshe, H du Raan, A van Aswegen, MG Lötter, J van Staden, AC Otto. An evaluation of attenuation and scatter correction on myocardial perfusion studies. SAAPMB [Y2k/50]th Congress, Durban, 2000.
13. H du Raan. Applications of Monte Carlo Simulations in Nuclear Medicine. SAAPMB [Y2k/50]th Congress, Durban, 2000.
14. Dr C Willemse and Mr. K Awusi. Using Monte Carlo techniques to evaluate dose distributions from a treatment planning system. SAAPMB [Y2k/50]th Congress, Durban, 2000.
15. FCP du Plessis, CA Willemse and MG Lötter. Comparative dose distributions of 8MV X-rays between Monte Carlo and the generalised Batho and ETAR methods in CT based patient models. SAAPMB [Y2k/50]th Congress, Durban, 2000.
16. PD du Toit, H du Raan, MG Lötter, A van Aswegen. Determination of attenuation coefficient conversion from transmission to emission in

tomography measured using two scintillation camera collimators. SAAPMB [Y2k/50]th Congress, Durban, 2000.

17. CP Herbst. Evaluation of tenders in the government. SAAPMB [Y2k/50]th Congress, Durban, 2000.

4. ALGEMEEN

4.1 Personeel Prestasies

4.1.1 Lidmaatskap van Vakkomitees en Rade

Prof. MG Lötter:

Koördineerder “AFRA II-23 Project: Sustainable regional capability in Nuclear Medicine”.

Lid: Mediese en Tandheekkundige Beroepsraad. (MTB).

Lid: Komitee vir die Mediese Wetenskap. (MTB)

Lid: Uitvoerende Komitee, SA Mediese Fisika Vereniging.

Lid: Navorsingkomitee: Fakulteit Gesondheidswetenskappe, UOVS.

Lid: Radio-Isotoopbeheerkomitee, Universitas Hospitaal.

Lid: Tele-Medisyne Komitee, Departement Gesondheid, Vrystaat provinsie.

Prof. A van Aswegen:

Koördineerder “AFRA IV-20 Projek (African regional cooperative agreement for research development and training related to nuclear science and technology): Maintenance of medical equipment”.

Lid: “International Atomic Energy” Co-ordinated Research Project Meeting: Comparison of Clinical Applications Software between Nuclear Medicine laboratories by Software Phantoms Developed by the Agency and the COST B2 Project”, Bangkok, Thailand, 27-29 March 2000”.

Lid: “AFRA (African regional cooperative agreement for research development and training related to nuclear science and technology) Task Force Meeting on Establishment of the Specialised Team for Service and Quality Control of Siemens Gamma Camera in Africa”, Rabat, Morocco, 11-15 September 2000.

Voorsitter International Organisation for Medical Physics (IOMP) Professional Relations Committee.

Member of the SA ASSOCIATION OF PHYSICISTS IN MEDICINE AND BIOLOGY, and the INTERNATIONAL ORGANIZATION FOR MEDICAL PHYSICISTS

Lid van die SA VERENIGING VAN FISICI IN GENEESKUNDE EN BIOLOGIE en die INTERNASIONALE ORGANISASIE VIR MEDIESE FISIKA

President SA Vereniging vir Kerngeneeskunde
 Fakulteitsafgevaardigde Fakulteit Natuurwetenskappe en Landbou
 Lid Finans Komitee, Fakulteit Gesondheidswetenskappe, UOVS
 Lid Biblioteek Komitee, Fakulteit Gesondheidswetenskappe, UOVS
 Lid FRD/Medunsa Institution Research Development programme

Prof. CP Herbst:

Lid International Atomic Energy Agency “Experts Working Group Meeting to Review the Draft Regulatory Guidance - Radiation Safety in Nuclear Medicine” Buenos Aires, 26-30 Junie 2000
 Lid International Atomic Energy Agency “Experts Working Group Meeting to Review the Draft Regulatory Guidance - Radiation Safety in Diagnostic and Interventional Radiology” Guatumala City, 27 Nov – 1 Dec. 2000
 Lid Uitvoerende Komitee, Suid Afrikaanse Vereniging vir Fisici in Geneeskunde en Biologie
 Beoordelaar Nasionale Expo - Jong Wetenskaplikes
 Lid Internasionale Beoordelingskomitee Expo - Jong Wetenskaplikes
 Voorsitter Rekenaarkomitee Skool van geneeskunde
 Voorsitter Rekenaarkomitee Fakulteit Gesondheidswetenskappe
 Voorsitter: His Komitee Universitas Hopsitaal
 Lid: Departementele Inligting Tegnologie Komitee - Departement van Gesondheid.
 Lid: Etiese Komitee vir Proefdiere
 Lid: Keuringskomitee vir Arbeidsterapiestudente
 Lid Tele-Medisyne Komitee, Departement Gesondheid, Vrystaat provinsie

Dr Hanlie du Raan

Lid “International Atomic Energy Agency”, Acceptance Testing Team, 10-16 March, Cairo, Egypt”.
 Lid Uitvoerende Komitee, SA Vereniging vir Kerngeneeskunde
 Sekretaris SA Vereniging vir Geneeskundige fisika.

Mr. JA van Staden

Beurshouer Internasionale Atoomenergie Agentskap. Opleidingsbeurs, Februarie – Mei 2000, beeldingsprosesseringseenheid (Hoof Prof. F. DeConinck), Universiteit Brussels, Brussels, België

4.1.2 Toekennings

Meditech Medalje vir ontwikkeling van Tegnologie. Suid Afrikaanse vereniging vir Fisici in Geneeskunde en Biologie. FCP du Plessis, CA Willemse en MG Lötter. Vergelyking van dosisdistribusies van 8MV X-strale tussen Monte Carlo, die veralgemeende Batho en ETAR metodes in CT gebasseerde kanker pasiëntmodelle. Durban, Junie 2000.,

Naasbeste laboratorium referaat. Fakulteit Gesondheidswetenskappe. A. Kavuma, CA Willemse en MG Lotter. ‘n Monte Carlo tegniek vir die evaluasie van die dosisdistribusie van ‘n behandelingsbeplanningstelsel. Bloemfontein, Augustus 2000.

Die **Chris Jansen Medalje** vir buitengewone navorsingsbydrae tot Kerngeneeskunde is deur die Suid-Afrikaanse Vereniging vir Kerngeneeskunde aan Dr. H du Raan toegeken.

Die **Muller Potgieter Medalje** vir beste nie-kliniese publikasie in die Fakulteit Geneeskunde is aan Prof. A van Aswegen en medewerkers toegeken.

(I) SUBSIDIEDRAENDE PUBLIKASIES

H du Raan, MG Lötter, GW Harris, A van Aswegen, AC Otto, MG Nel, PN Badenhorst, KA Verbeke and AM Verbruggen. Measurement of plasma volume using $^{99}\text{Tc}^m$ -labelled DMP-HSA. Nuclear Medicine Communications, 2000, 21, 539 – 544.

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