## AbstractID:9889Title :Me ettheExpe rtSe ssion: ImagingPhys ics

Itisaprivi legeto bea me dicalph ysicist.Fewpro fessionscanm atchm edicalphysics in the epthofintellectualchallenge, the opportunityfortechnologyd evelopment, and the prerogative of imp roving the careof patientssi nglyand collect ively through applications of physics. To exercise this privilege while making adecentliving is approximate resonal benefit that we all share e. But with hit comes are sponsibility to a dvance the state of knowledge in medical physics, nur ture young physic is test the field, engage in clinical practice with the patients' we lfare foremost inmind, and relate to physics, other health care providers, patients and the public with for thrightne ssand in tegrity.

Forthepast30years ,me dicalim aginghasb eenexp eriencing amassiveexpans ionintechnologyandapplications.T hisexpansionis continuing,withne whor izonstoconq uersuchasmolecu lari maging,quanti tativeimaging,i maginginmulti pledimensi ons(4 D, 5D, etc),image -guidedad aptivether apy,multi -modalityi magingplatforms,andm anyother s.T hisexpansionisamajoroppor tunity for medicalp hysicists,whoseman yrolesincludeensu ringthatwhat ispresent edi nimages r eflectscondi tionsi nthepatientandnotinthe imagings ystem. Tores pondtot hisopp ortunity,medical physicis tsalways mustremainopentonewknowledgeandnewwaysof thinking,andm ustcommi ttoa lifetimeofstud y andl earningth at willkeep them p roductivelyengagedinthedisciplineandits contributionsto advan cingknowled ge,mentori ngs tudents,andcaringforpatient s.

Usuallyf inancialsupportis need editoconductres earchi nmedica lphysics. Therearese veralpossiblesourcesof s upport, including institutionalfunds, i ndustryc ontractsa ndgovernm entgrant s. Eachofthesesou rceshasbenef itsan dlimitation s, which willb e discussed int hissession. Tofa cilitatethisd iscussion, copi es of arecent publication will be provided (A. Wolbarstand W. Hendee, **The NationalInstitut eofBi omedicalImagin gand Bi oengineeringand NIH GrantP rocess: AnO verview:** Radiology2007; 242:3 2-55). Thispublicationisinte nded asguidance for the youngin vestigators ubmitting af irstapplication toone of the institutes of the NationalInstitutes of Heal th.

Thiss essionwillencour ageq uestionsa nddiscussi onamongparticipants,andwillbeledbyWilliamHendee.Dr.Hendee hasover40 yearsof e xperienceinmed icalph ysics,includi ngProfess orandDi rectoroft heD ivisionofRadiologicalSciencesof theUniversityof ColoradoDepartm ento fRa diology; Professor andC hairoft heDepart mentofRadiologyatt heUniversityofColorado;Vi ce Presidentofthe AmericanMedica lAssociationandExecutiveSecretaryof theAMACouncilofSci entificAff airs;and Professorand ViceCha irofRadi ology,D eanof theGrad uateSch oolofBi omedicalSciences,Senior AssociateDeanf orResearch,ActingDeanof theMedi calSchool,and Presidentof the eRes earchF oundationatt heM edicalCollegeofWiscons in. Cur rentlyDr.Hendeeis DistinguishedProfessor ofRa diology,Radiati onOn cology,B iophysics,andCommunityandPubli cHealthatth eMedicalCollegeof Wisconsin,Professorof Biomedica lEngineeringat Ma rquetteUniv ersity,AdjunctPr ofessorof Electri calE ngineeringatt he UniversityofW isconsin-Milwaukee,a ndCl inicalProfesso rofRa diologyatth eUniversityof Ne wMexico.DrHendees ervesas editorofMedic alP hysics.