Asia-Oceania Congress of Medical Physics

**International Medical Physics Certification Board** 

## **Objectives and Guidelines**

Raymond K. Wu, PhD

Chairman

IOMP Professional Relations

Committee

10th AOCMP, Oct 2010

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**International Medical Physics Certification Board** 

## **Objectives and Guidelines**

**Co-authors** 

Edward S Sternick, PhD Kin Yin Cheung, PhD
Chairman Vice President

**Constituting Panel** 

ice Presider IOMP

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## **ACMP Initiative**

International Board of Medical Physics
Constituting Panel
formed in 2008
after the ACMP Meeting in
Seattle

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#### **IOMP Interest**

IOMP Executive Committee approved the Work Group on International Medical Physics Certification

in 2009

under the PRC

Professional Relations Committee Chaired by Dr. K. Y. Cheung

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#### **IOMP Feedback**

- IOMP supports in principle
- ETC will accredit E or T programs
- Be consistent with current models
- Should avoid legal liabilities
- Be consistent with IOMP policies
- Goals Improves quality of MP
- Benefits patients

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#### **IOMP Feedback**

- Voluntary model recognized by hospital only
- Registry / Certification established by professionals and seek directive in force
- Registry / Certification with government directive in force

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#### **IOMP Feedback**

IOPM Policy No. 1 - The Medical Physicist: Role and Responsibility

IOMP Policy Statement No 2 – Basic Requirements for Education and Training of Medical Physicists

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#### **AFOMP POLICY STATEMENT NO 1**

The role, responsibilities and status of the clinical medical physicist in AFOMP

Australasian Physical & Engineering Sciences in Medicine Volume 32 Number 4, 2009

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May 23<sup>rd</sup>, 2010

International Medical Physics Certification Board was born www.IMPCB.org

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#### **Charter Member Organizations**

- National MP organization resolution
- Considers certification body needed
- Plans to use service when available (not mandatory)
- Budget within organization
- One time fee \$100 \$500
- Commitment to support efforts

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CHARTER MEMBER ORGANIZATIONS

**KSMP** 

LAMP HKAMP
ACMP FMOFM
CSMPT IMPS
NAMP ABFM
CSMP ACPSEM

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July, 2010

International Medical Physics
Certification Board
incorporated
in Delaware USA
IMPCB, Inc

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#### **Article of Incorporation**

- Improve the practice
- Establish international standards
- Test the competence of candidates
- Issue certificates
- Maintain lists of certified
- Provide assistance to member countries

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## August, 2010

- Tax Identification Number Provided by US IRS
- Website established IMPCB.org

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## September, 2010

Bank Account
with J P Morgan Chase Bank
Swift code Chasus33
Managed by IMPCB Treasurer
Timothy Chiang of Taiwan

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#### **Other Immediate Jobs**

- Establish bylaws
- Recruit Volunteers
- Elect officers
- Adopt guidelines

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Guidelines
IBMP Constituting Panel
August 2010 Draft

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## **Constituting Panel Draft**

- Certification Process
- Objectives
- Examination format
- Eligibility
- Re-examination

#### **Certification Process**

Certification should be by examination, conducted by a country-specific, geographically regional or other designated Medical Physics Certification Board

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## **Objectives**

a. To establish minimum standards and improve the practice of medical physics

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## **Objectives**

b. To develop standards and procedures for the certification of medical physicists

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## **Objectives**

c. To establish and evaluate qualifications of candidates requesting examination for certification

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## **Objectives**

d. To arrange, and conduct examinations to test the competence of candidates for certification in the field of medical physics

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#### **Objectives**

e. To grant and issue certificates in the field of medical physics to applicants who have been found qualified by the Board

## **Objectives**

f. To maintain a registry of holders of such certificates and serve the public by preparing and furnishing lists of medical physicists who have been certified by the Board

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#### **Examination Format**

It is recommended that the certification examination consist of three parts:
Candidates will pass both Part I and Part II before taking Part III

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#### **Guidelines**

Part I is designed to test the competence of the candidate in fundamental aspects of medical physics (General Medical Physics).

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#### **Guidelines**

Part II is designed to determine the competence of the candidate in a specialty area of medical physics,

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#### Guidelines

Part III is designed to determine the candidate's knowledge and fitness to practice clinical medical physics in a designated specialty

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### **Medical Physics**

- Radiation Oncology Physics
- Medical Imaging Physics
- Nuclear Medicine Physics
- Non-ionizing Radiation Physics
- Medical Health Physics
- Physiological Measurements

## Eligibility - Part I

Education – Masters or Doctorate in physics, medical physics or an equivalent degree in an appropriate physical or engineering science discipline.

Professional Training - none required

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## **Eligibility - Part II**

Professional Training – 2 years full-time equivalent training preceding the date of application for examination

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## Eligibility - Part II

Training should be carried out under the supervision of a Certified Medical Physicist (CMP) specializing in the same sub-field or under the supervision of a qualified individual with a level of professional experience and expertise equivalent to that of a CMP

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#### Part III

Oral Examination
Medical Physics Specialty
Prerequisites – successfully
passed Parts I and II

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#### Re-examination

A candidate who fails to pass any Part of the three-part examination may petition to be re-examined in that Part within one year from the previous attempt

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#### Re-examination

If any Part of the examination has been taken unsuccessfully three times, the candidate should be required to reapply for the entire sequence of examinations

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# Constituting Panel Draft to be continued

- Life long learning guidelines
- Core functions of IMPCB
- Financial model
- Other concerns

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#### **Immediate Tasks**

- Publicize initiative in MPW
- Plan a session for ICMP in Brazil April 17 - 19, 2011
- Establish bylaws
- Recruit Volunteers
- Elect officers
- Set up service structures

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## Thank you

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## Years to Certification

The CP's model will likely take 6 years, as illustrated below -

Based on the examination schedules of August for Part I and Part II, and May for Part III. The shortest time to complete the certification process is 6 years, as shown below:

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#### **Years to Certification**

- Sept 2011 student enters advanced MP program for a Master's degree
- June 2013 student graduates, and applies to take Part I but does not know if accepted by a clinical training program
- Sept 2013 candidate starts clinical training program

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#### **Years to Certification**

- Aug 2014 candidate takes Part I and passes
- June 2015 candidate completes clinical training program and applies to take Part II
- Aug 2016 candidate takes Part II and passes
- May 2017 candidate takes Part III

The 6-year process may be reduced to 5 year if the processing time to register for the Part II examination can be cut to 2 months

## **Years to Certification**

Part I and Part II may be administered together. But the candidate will have to wait till June 2015 to apply to take the first examination, after the completion of clinical training.

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Thank you

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