

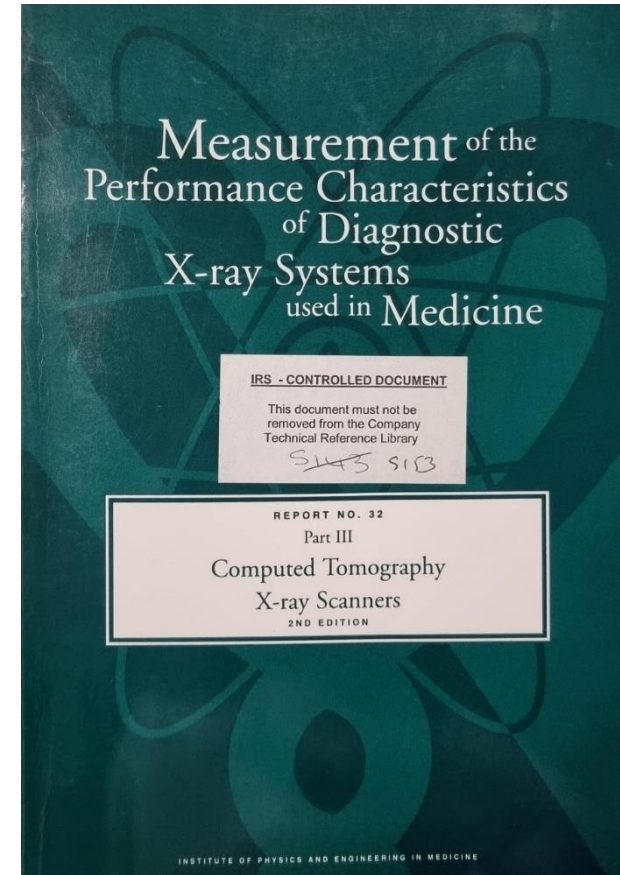
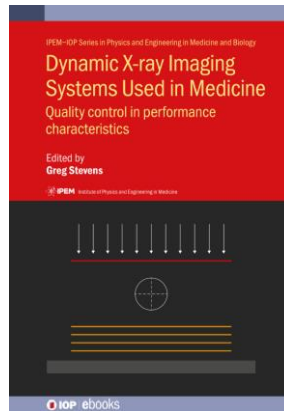
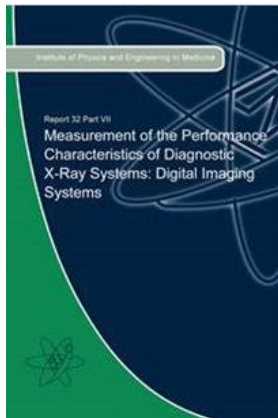
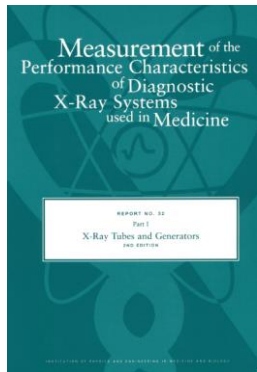
Working party: updating IPEM 32 part iii

Susan Doshi

Chair of WP

IPEM Report 32 Series

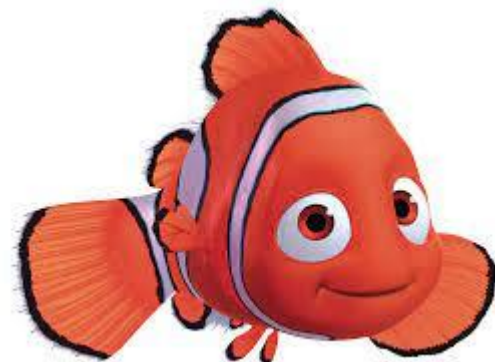
- First part was published in 1981 – “*Measurement of the performance characteristics of diagnostic X-ray systems used in medicine*”



IPEM Report 32 Part iii 2nd Edition

What's new since 2003?

- Tube Current Modulation (AEC)
- Spectral CT
- Iterative Reconstruction
- More Slices / Volume Acquisition
- Information Systems (RDSRs and SSDEs etc.)



Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Working party

Jonny Mitchell (Liverpool)

David Platten (Lincoln)

Emily Smith (Nottingham)

Kirsty Hodgson (Coventry)

Susan Doshi (Cardiff)

Sue Edyvean (UKHSA)

Mandy Price (Southend)

Laurence King (Bath)

Nick Keat (Invicro)

Dan Shaw (Plymouth)

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

DRSIG

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Part iii second edition

Nick Keat

Dan Shaw

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Evidence-based QC WP

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

New edition of part i

Working party

Jonny Mitchell

David Platten

Emily Smith

Kirsty Hodgson

IEC WG 30 (working on spectral)

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Working party

Jonny Mitchell

David Platten

Emily Smith

IPEM 91 WP CT chapter

Kirsty Hodgson

**Debbie Saunders
Eugenia Kulama**

Susan Doshi

Sue Edyvean

Mandy Price

Laurence King

Nick Keat

Dan Shaw

Content

- Introduction and scope
- Protocol management
- Interventional applications
- SPECT-CT & PET-CT
- Radiotherapy applications
- Test equipment
- Dose in phantom (to enable you to calculate dose to patients)
- Image quality parameters – quantitative, semi-quantitative, qualitative
- Image reconstruction (how this affects image quality and measurements)
- How to measure image quality (inc other things that affect measurements)
- Phantoms
- Artefacts and testing artefact reduction
- Mechanical, safety
- X-ray tube
- AEC
- Spectral

How we work

- Hour-long meeting every four weeks
- Notes / drafts / documents on Teams

Progress so far...

- Allocated subjects to people
 - Two people per subject
- First pass through headings
 - Bullet-pointed list
 - Scope
 - Important / unresolved questions
- Second pass through headings
 - First draft of text
 - Rough round the edges
 - Still with questions
- Third pass through headings
 - Finished (ish) text



Any Questions?

Please feel free to email questions and comments:

Susan.Doshi@wales.nhs.uk