

From Collé
meeting w/ Steve
Sury
3/13/13

ONLY RADIONUCLIDIC METROLOGY

NOT DOSIMETRY
OR EXPOSURE
RATE

BIRTH

1910

Ra Curie Stds

electroscope (Pierre Curie)

Rutherford γ -range

1920

calorimetry

ZnS screen

Ra/Rn craze

natural isotopes

ores

Ra applications (med.)

Ra found

mine safety

dial painters

Collé. ref. to Steve.

huge amount of Ra measured.

1930

Gas Counters

Ra Hönigschmid Stds

YOUTH
GROWTH
SPURT

1940

Nat'l

Rn std bubbles

NIST & NPL only std d. distributing

advent of controlled nuclear fission

+ accelerators produced

1951 H. A. J. LS

1950

started informal comparisons

fast intersample internat'l Ra

Cal.

EARLY LS

Plastics

Ge (Li)

many new radionuclides

many new radionuclides

standards for nucl. research

HERB Glick - weapons

BETH COUNTING

MAFFE

COINCIDENCE COUNTING

style?

OLDEN
AGE

1960

SOLID STATE DETECTORS

Si (Li)

1963 BIPM comparisons

Si surface barrier

HgGe

ICRM

advent of applications

environment

medical

nuclear power

1970

1975 1st red organized MAP

proficiency testing

all others modelled after

LS CNET/TGER

"DOSE CALIBRANTS"

NAT'L MATRIX STDS

2nd Radon craze

many new measurements & calib.

ADULTHOOD

1980

MORE USE FOR THERAPEUTICS

chemistry + metrology (digestive assays)

mature QAP

1990

2010

lots of medical

Household security

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