

Strange Glow: The Story of Radiation

Timothy J. Jorgensen



BOOK SALE AND SIGNING 12:15 to 12:45pm

American Institute of Physics Booth (AAPM Booth #1237)

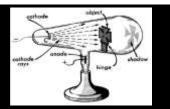


Once upon a time, ...









CROOKES TUBE INSTRUCTIONS:

- Connect electrical power to electrodes.
 Turn off room lights.
 Stand in awe.



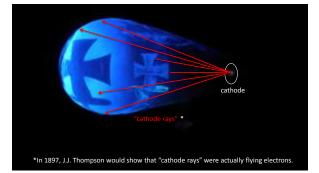


Very cool ...

... but what the hell is going on with this Crookes tube thing?!

"A child of five could understand this someone fetch a child of five."

-- Groucho Marx

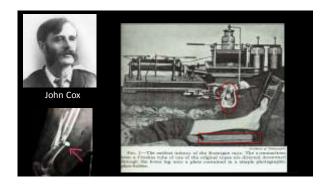


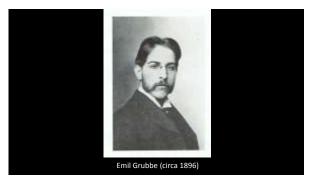
But glowing in the dark is not the only cool thing that a Crookes tube can do!





Roentgen names them "x-rays" because he has no idea what they are.







"E. H. Grubbé 12 Pacific Avenue Dear Sir: This will introduce Mrs. Rose Lee, who has carcinoma of the left breast. She is willing to have you make x-ray applications. I hope you can help ber. Yours truly, R. LEDLAN, M.D.

Mrs. Rose Lee was first treated on January 28, 1896.

"I continued to make use of x-rays for treatment purposes for several years, [and in some cases] the results were so striking as to cause a sensation."

-- Emil Grubbe

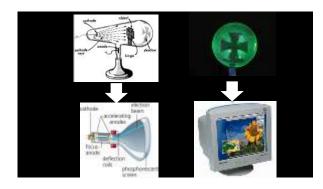
First cancer cure with x-rays reported in 1899.







So where are the Crookes tubes today?



So what ever happened to Roentgen?

Sweden awards first Nobel Prizes









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Roentgen and the Crookes tube may be forgotten,

but mankind's curiousity persists ...

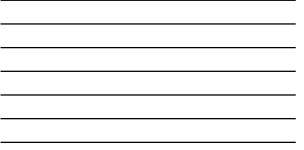
... and the the scientists and the public lived happily ever after.

Well, not quite ...













"Today, the Japanese released 11,000 tons of radioactive water into the Pacific Ocean!

Please come down and comment."



Then the questions started:

- Can I eat the sushi ?
- Is it safe to buy a Japanese car?
- Should I be taking iodide tablets before a CT scan?
- Are airport body scanners safe?
- Will my cell phone make me sterile?







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AWARDS & DISTINCTIONS

• Winner, The 2017 Science Communication Award (Best Book), American Institute of Physics

\$2,000,00,000

ce of 2016

s for 2016 (Ranked Sixth Best Book of the

RANKED 8th !

- ence, Medicine & Technology, Association Winner, The 2017 PROS Ξ F 19 of American Publishers æ The Telegraph (London)
- Year)
- Smithsonian Magazine's D.
- Physics World's Top Ten

 - 2016, American Library Association One of Choice's Outstan
- A History of Science Best Seller for 2016

... but science has low "curb appeal."

"I approached this book with low expectations. Ho hum, I thought. A book about radiation, written by a professor. ... Probably some dull memoir by a retired old boy. How wrong I was." -- John Gribbin, *Literary Review*

 $^{\prime\prime}\mathrm{I}$ expected a lot of the material would be beyond me. ...Whenever I see mathematical equations, I grow queasy. What I did not expect was to enjoy this. ... I certainly did not expect was to get caught up in the stories of the scientists." -- Jacqueline Cutler, Newark Star Ledger

((((Ding)))))

You've got mail!

Dr. Jorgensen-

This is a first for me but I just had to reach out and say how much I enjoyed your book!

I agreed to teach the Nuclear Science Merit Badge to our Boy Scout Troop. The subject is a bit of a stretch for me but I figured I could stay a day or two ahead of the 11 year olds! In my rush to get prepared, I came across your book. ... What a fantastic find!

You have made an extremely intimidating topic accessible to those with a simple interest. ... Thank you for writing such a readable book about what many think is a subject beyond the reach of the non-scientific mind.

Cheers, M.D. Centennial, Colorado



"This is the kind of book that, many years ago, awakened my pre-teen mind to the wonders of science and set me on the road to my becoming a scientist. The story told here is, of course, much more detailed, comprehensive and up-to-date, but it is one that never fails to grab the interest. ... Even well-read scientists will learn something new, while non-specialists will be fascinated by the historical anecdotes, and will perhaps find many of their fears alleviated."

-- Anthony Toole, Amazon UK review

"Every kid starts out as a natural-born scientist, and then we beat it out of them." – Carl Sagan



Why I wrote the book the way I did:









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