

Dr. Arnold O. Beckman's Revolutionary Tools

In-Tour Activity: Matching Terms

Directions: Below you will find a set of terms and a list of clues. Based on what you learn during the Revolutionary Tools exhibit tour, match each term with its corresponding clue. The first one is completed for you as an example.

acidimeter	blacksmith	business	Caltech	chemistry	Cullom
glassblowing	incubators	institutes	Inventors	lemons	Mabel
Marines	matter	oxygen	phone	science	smog
space	spectrophotometer	submarines	supplements	ultracentrifuge	

1. Cullom Clue: Rural Illinois town where Arnold O. Beckman was born in 1900
2. _____ Clue: Profession of Arnold's father
3. _____ Clue: Subject of the book that sparked Arnold's lifelong curiosity
4. _____ Clue: Branch of the military that 18-year-old Arnold joined during WWI
5. _____ Clue: University where Arnold earned his PhD in photochemistry and later became a professor
6. _____ Clue: Photochemistry is the study of how light interacts with this
7. _____ Clue: Dr. Beckman taught a world-renowned class on this skill
8. _____ Clue: Type of systems that Dr. Beckman worked on quality control for while at Bell Labs in NYC
9. _____ Clue: Dr. Beckman's fraternity brother was interested in measuring the pH of this type of fruit
10. _____ Clue: Another name for a pH meter
11. _____ Clue: Dr. Beckman left Caltech to pursue this kind of opportunity
12. _____ Clue: Name of Dr. Beckman's wife who also traveled cross-country with him to sell pH meters
13. _____ Clue: The only gas that reacts to a magnetic field
14. _____ Clue: The oxygen analyzer helped these vessels stay submerged longer
15. _____ Clue: To help prevent premie blindness oxygen analyzers were used in these hospital devices
16. _____ Clue: Oxygen sensors are used for high altitude flight including this type of exploration mission
17. _____ Clue: Instrument that measures the interaction between light and materials
18. _____ Clue: Early use of the spectrophotometer measured the amount of Vitamin A in these
19. _____ Clue: An instrument Dr. Beckman invested in that was used to prove the theory of DNA replication in cells
20. _____ Clue: Dr. Beckman as inducted into this Hall of Fame (like Alexander Bell and Thomas Edison)
21. _____ Clue: Dr. Beckman led a task force to understand causes of and find ways of improving this
22. _____ Clue: Dr. and Mrs. Beckman used their fortune to start a foundation, support young scientists and establish five of these across the nation
23. _____ Clue: Dr. Beckman's Revolutionary Tools may spark your interest in a career in this field