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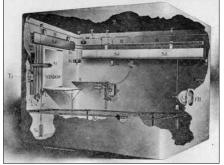
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# **Today in Chemical History**









Wilbur Olin Atwater (1844-1907)

Chemical physiologist, Born May 3, 1844, Johnsburgh, N.Y.; died September 22, 1907, Middletown, Connecticut.

Co-inventor of the Atwater-Benedict-Rosa Calorimeter, A respiration calorimeter constructed 1892-1897 which proved the law of conservation of energy in human beings and made it possible to calculate the caloric values of different foods

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# **Next in Business & Innovation:**





Thursday, June 14, 2012

Green Chemistry and Global Access to Medicines in Developing Countries

Dr. Joseph Fortunak, Professor at Howard University.

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# Upcoming ACS Webinars™ www.acswebinars.org





Thursday, May 17, 2012

From Cocoa Buds to Taste Buds – The Chocolate Process and Sensory Experience

Greg Ziegler, Professor of Food Science at Penn State,



Thursday, May 24, 2012

Creating Successful Research Proposals: Tips from the Trenches

Celia Elliott, University of Illinois at Urbana-Champaign

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# ACS WEBINARS™ May 10, 2012



# Building an Innovative Research Culture: The Case of DNA Sequencing

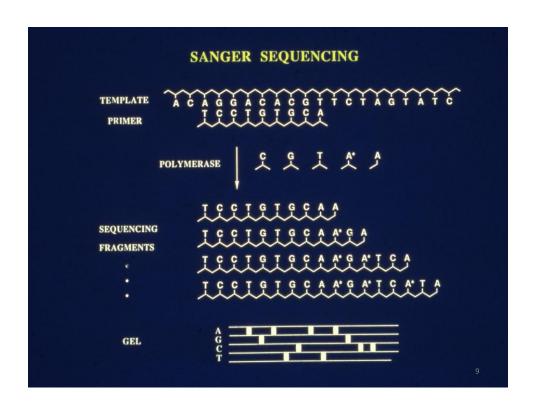


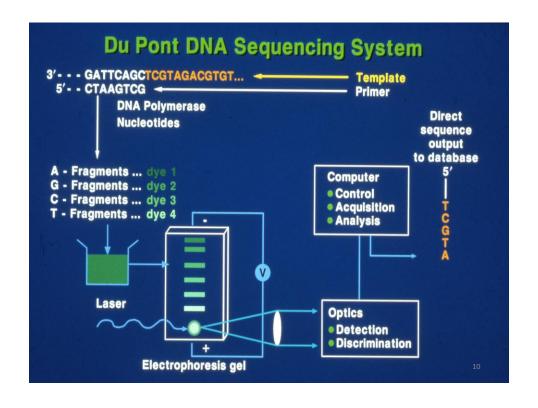
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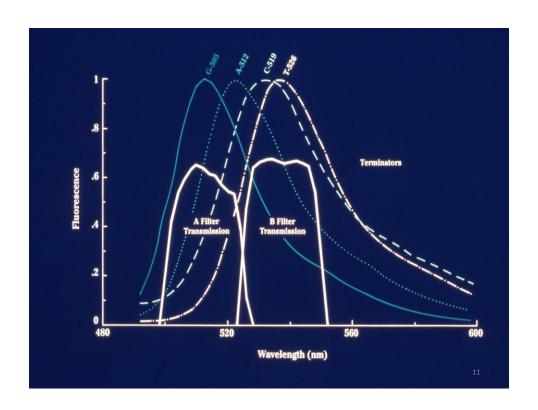
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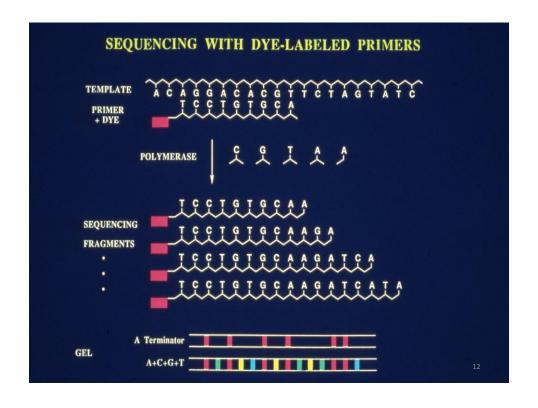
# What you will learn today . . .

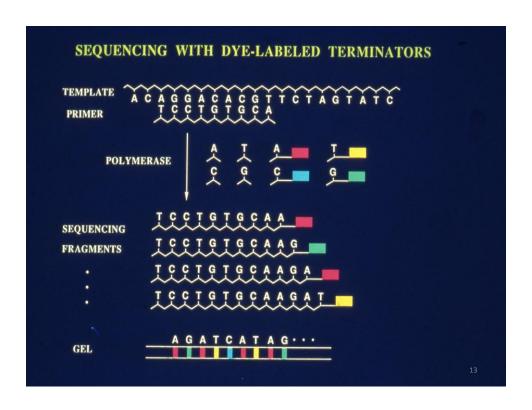
- · The principles of traditional Sanger DNA sequencing
- How a multidisciplinary project arose and flourished in a corporate research environment
- How anticipated performance outcomes as opposed to shortterm expedience led to superior design
- How dye-labeled terminator sequencing was accomplished
- How a key innovation survived beyond its immediate commercial embodiment

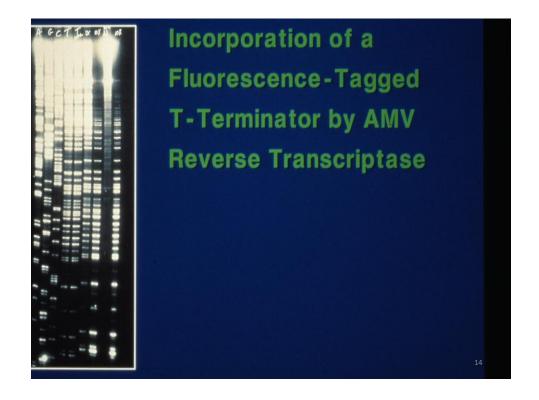


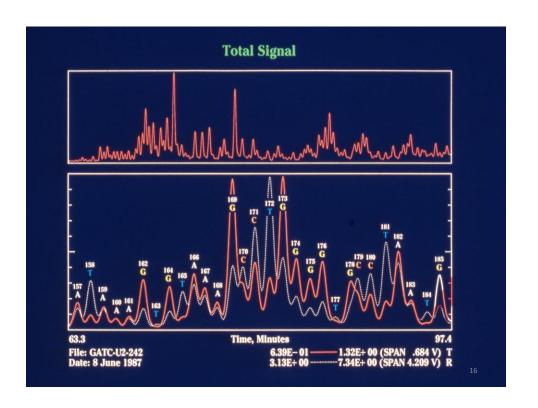












# Factors that supported innovation . . .

- Originating team with no previous experience with the application
- Facile institutional interaction between scientists/engineers from different disciplines/organizations
- Willingness of management to recognize opportunities for innovation and support unscripted projects
- Willingness to rank anticipated performance above "degree of technical challenge" in choosing approach
- Willingness to work facing world-class competition
- Ability to engage world-class talent as needed at key stages
- Ability to rapidly engage manufacturing/commercial/marketing to bring an unscripted project to market

# Rudy Dam Jim Prober George Trainor Frank Hobbs Charlie Robertson Bob Zagursky Tony Cocuzza Mark Jensen Ken Livak Kirk Baumeister Peter Korolkoff George Emmet Julie Clemens-Bunville Debbie Ornstein

## ACS WEBINARS™ May 10, 2012



# Building an Innovative Research Culture: The Case of DNA Sequencing



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ACS Webinars Host



Grad Student 2012 - 2014



By: Kate Sellar & Brittany Vesce

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