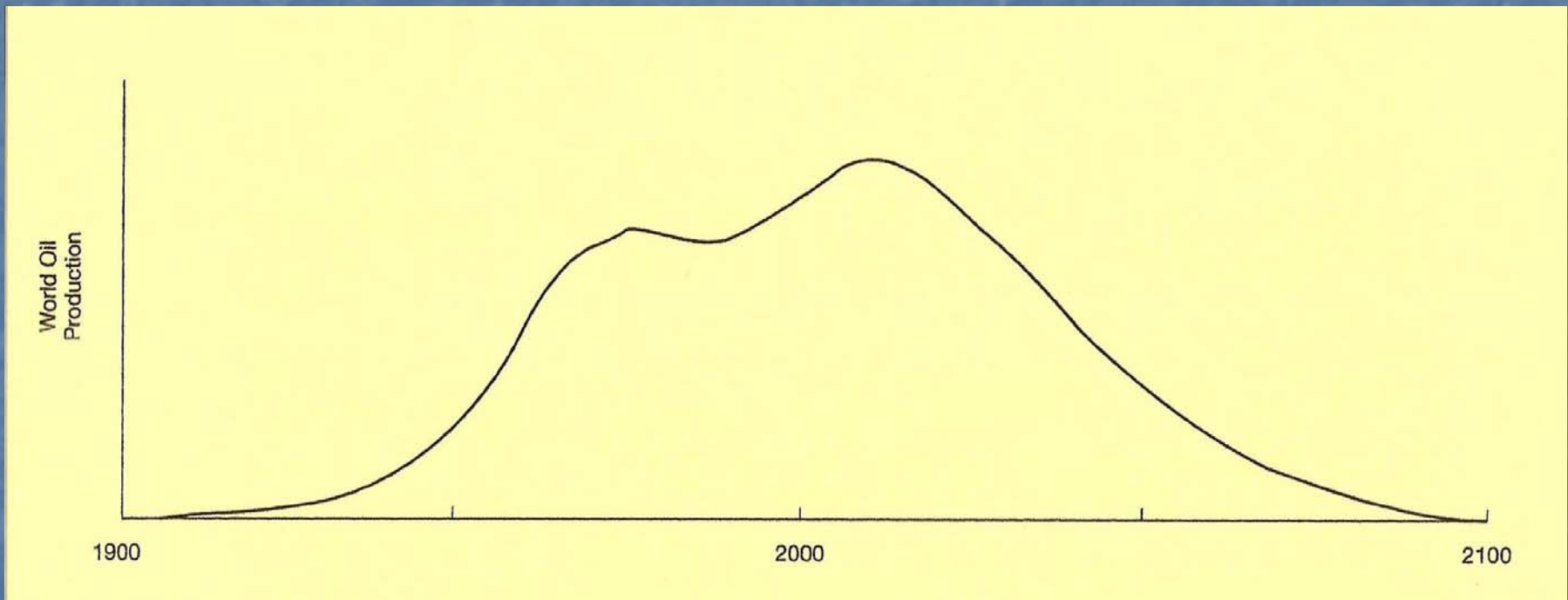


Future Fuels Petroleum?

Phil Meyers
Geological Sciences
The University of Michigan

World Petroleum Production Past, Present, and Probable



Petroleum "Balance" in the U.S.

A 35-Year Snapshot of U.S. Crude Oil Demand

<u>Activity</u>	<u>1970</u>	<u>2005</u>
Domestic production	3.5 Bb/yr	1.9 Bb/yr
Importation	0.5 Bb/yr	3.7 Bb/yr
Consumption	4.0 Bb/yr	5.6 Bb/yr

How To Make Petroleum

Nature's "Recipe" for Petroleum

- Unusually prolific production of marine or lacustrine organic matter
- Uncommonly high rate of survival of organic matter in bottom sediments
- Thermal alteration of biological organic matter into hydrocarbons
- Lots of time (millions of years)
- Suitable rock formations to absorb and retain liquid hydrocarbons

Why Petroleum Is Useful

Principal Uses of Petroleum

- Fuel for transportation
- Fuel for generation of electricity
- Feedstock for plastics and pharmaceuticals

