

European Day of Languages

The kind of motion we call heat:
European Pioneers

Antoine-Laurent de Lavoisier



- ◆ French nobleman
- ◆ Most notable work in chemistry
- ◆ Followed the caloric theory
- ◆ Guillotined in the French Revolution

Joseph Fourier



- ◆ Developed theory of conduction
- ◆ Believed wrapping yourself up in blankets was good for you
- ◆ Died by falling down stairs

Nicolas Léonard Sadi Carnot

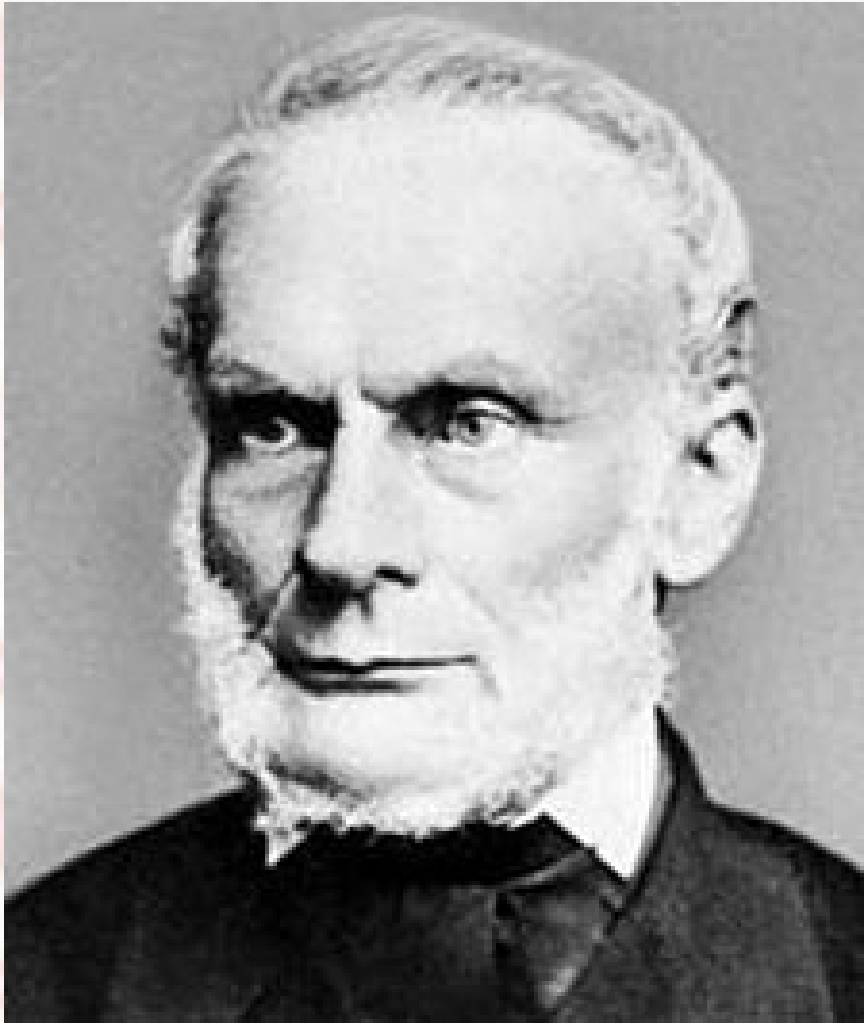
- ◆ Worked out physics of how to use heat flow to run steam engines
- ◆ Served in the French army before doing science
- ◆ His nephew became the President of France



August Karl Krönig

- ◆ Published a paper suggesting that heat in gases due to molecules moving faster
- ◆ Berlin, 1856
- ◆ Similar work was being done at the same time in England by Herapath and Waterston

Rudolf Julius Emanuel Clausius



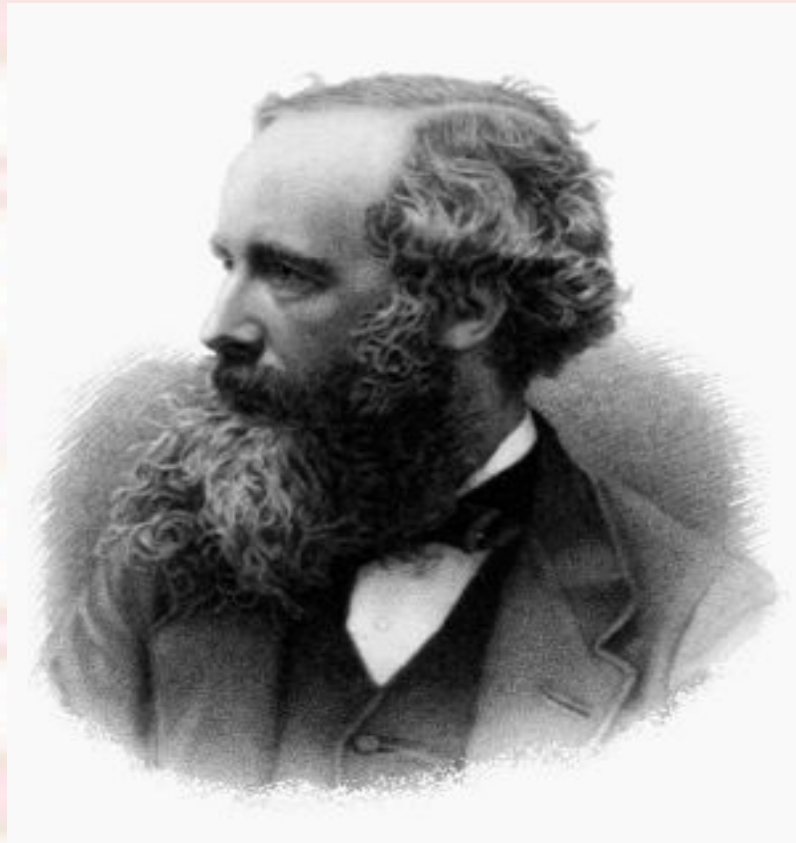
- ◆ Über die Art der Bewegung, die wir Wärme nennen, 1857
- ◆ Another German physicist, who got his papers published in English...
- ◆ Revised Sadi Carnot's work

Christophorus Henricus Diedericus Buys Ballot



- ◆ Disagreed with the atomic theory of gases (was wrong!)
- ◆ Has a crater named after him on the Moon!
- ◆ Had a great name (or unkind parents)

James Clerk Maxwell & Ludwig Boltzmann



Johannes Diderik van der Waals



- ◆ Dutch physicist
- ◆ Influenced by Clausius
- ◆ Was a teacher as he didn't have the Latin & Greek needed to go to university
- ◆ Maxwell (1875):
“has certainly directed attention ... to the study of the language in which it is written”