Birth of the Pipes

The Organ from its Beginnings Through the Baroque Era
Over 2,000 years of development
Over 2,000 years of development

1. Desire for different types of sound
   - pitch
   - range of volume
   - timbre
2. Different types and sizes of organs
3. Desire to make it easier for organists to utilize organ’s capabilities
The Organ’s Beginnings

• Ctesibius
  - hydraulus
The Organ’s Beginnings

• Ctesibius
  - hydraulus
• Heron of Alexandria
  - keyboard
The Organ’s Beginnings

- Ctesibius
  - hydraulus
- Heron of Alexandria
  - keyboard
- Nero
  - stronger air pumps
The Pneumatic Organ
The Pneumatic Organ

- Bellows were introduced around 120 A.D.
- 100’s of pipes = 20-40 bellows
- Over 80 men
- Organa magna
  - four huge manuals
- Organa parva
Designing Organs for Venues
Designing Organs for Venues

- Acoustics
- Visual aesthetics
- Liturgical requirements
Designing Organs for Venues

- Case design
- Arrangement of pipes
- Pipe colors and ornamentation
Refinements after 1500
Refinements after 1500

• Smaller keyboard
• Reed pipes
• Concussion bellows
• Pedals
3 Reasons for Development

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   - pitch
   - range of volume
   - timbre
2. Different types and sizes of organs
3. Desire to make it easier for organists to utilize organ’s capabilities