

## **Royal Academy Expeditions**

### **Picard to Denmark, 1671**

**Determine precise longitude and latitude of Hven**

**Obtain a copy of register of Tycho's observations**

**{Discovers anomalous "motion" of northern stars**

**Brings young Roemer back to Paris Academy}**

### **Richer to Cayenne, 1672-73**

**Determine precise obliquity of the ecliptic**

**Determine precise times of equinoxes**

**Determine parallaxes of Mars, Venus, Sun**

**Record motions and parallaxes of Moon**

**Record motions of Mercury**

**Record positions of south-hemisphere stars**

**Determine precise longitude and latitude of Cayenne**

**{Finds clock around 2½ minutes slow per day**

**Finds one-second pendulum 1¼ lines shorter, i.e.  
gravity around 0.35% weaker at Cayenne}**