



The View from NSF

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About the National Science Foundation

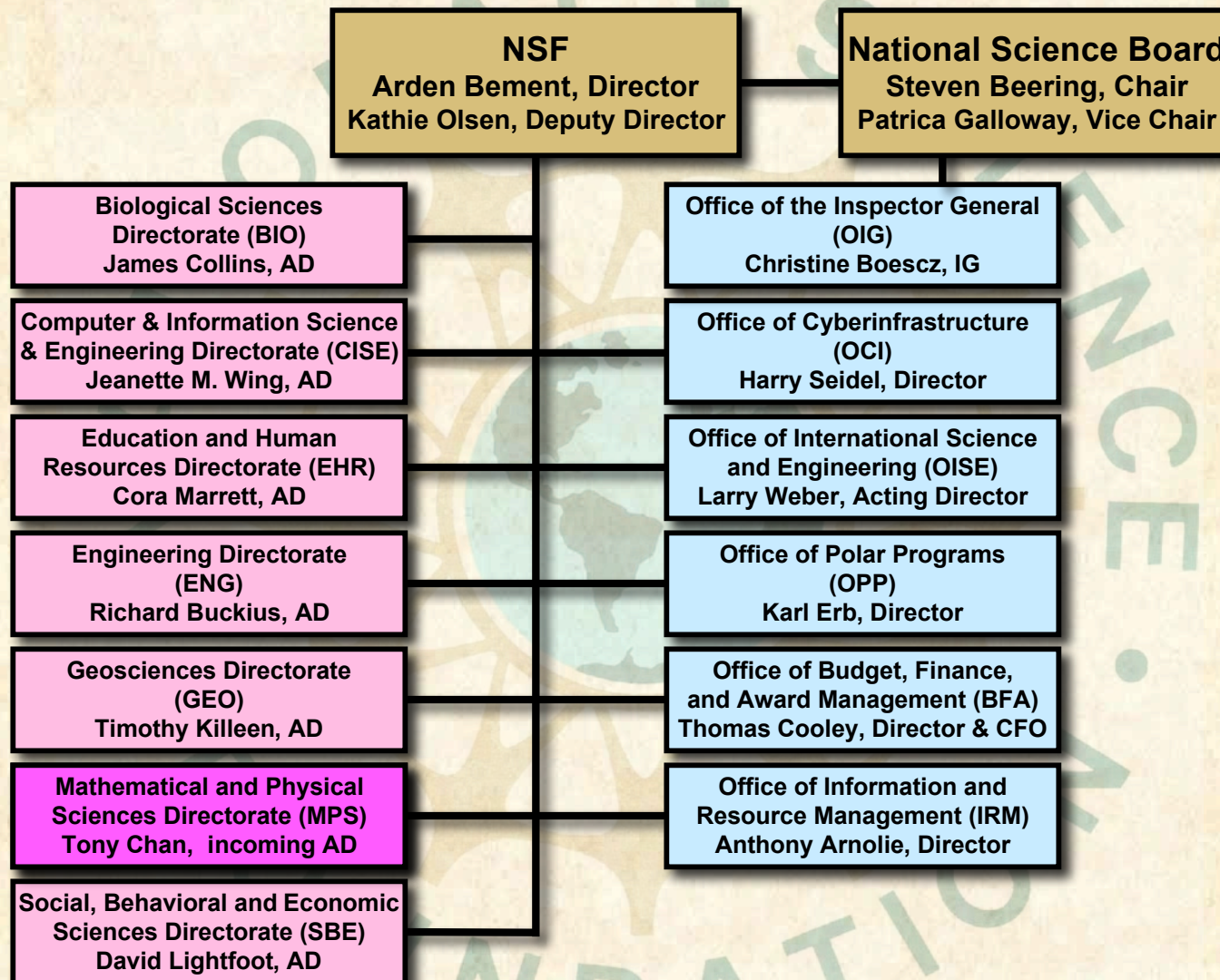
NSF is an independent federal agency created by Congress in 1950 “to promote the progress of science; to advance the national health, prosperity, and welfare; to secure the national defense.”

- NSF primarily supports small research groups:
 - ~10,000 grants, average duration 3 years
 - supports ~200,000 scientists, educators, engineers, and students
- NSF also funds major instrumentation, facilities (such as LIGO), research centers, infrastructure
- Annual budget ~\$6x10⁹
- NSF staff totals ~1700
- NSF receives ~42,000 proposals each year
 - Proposals are reviewed by expert, independent panels
 - ~50,000 panelists serve each year



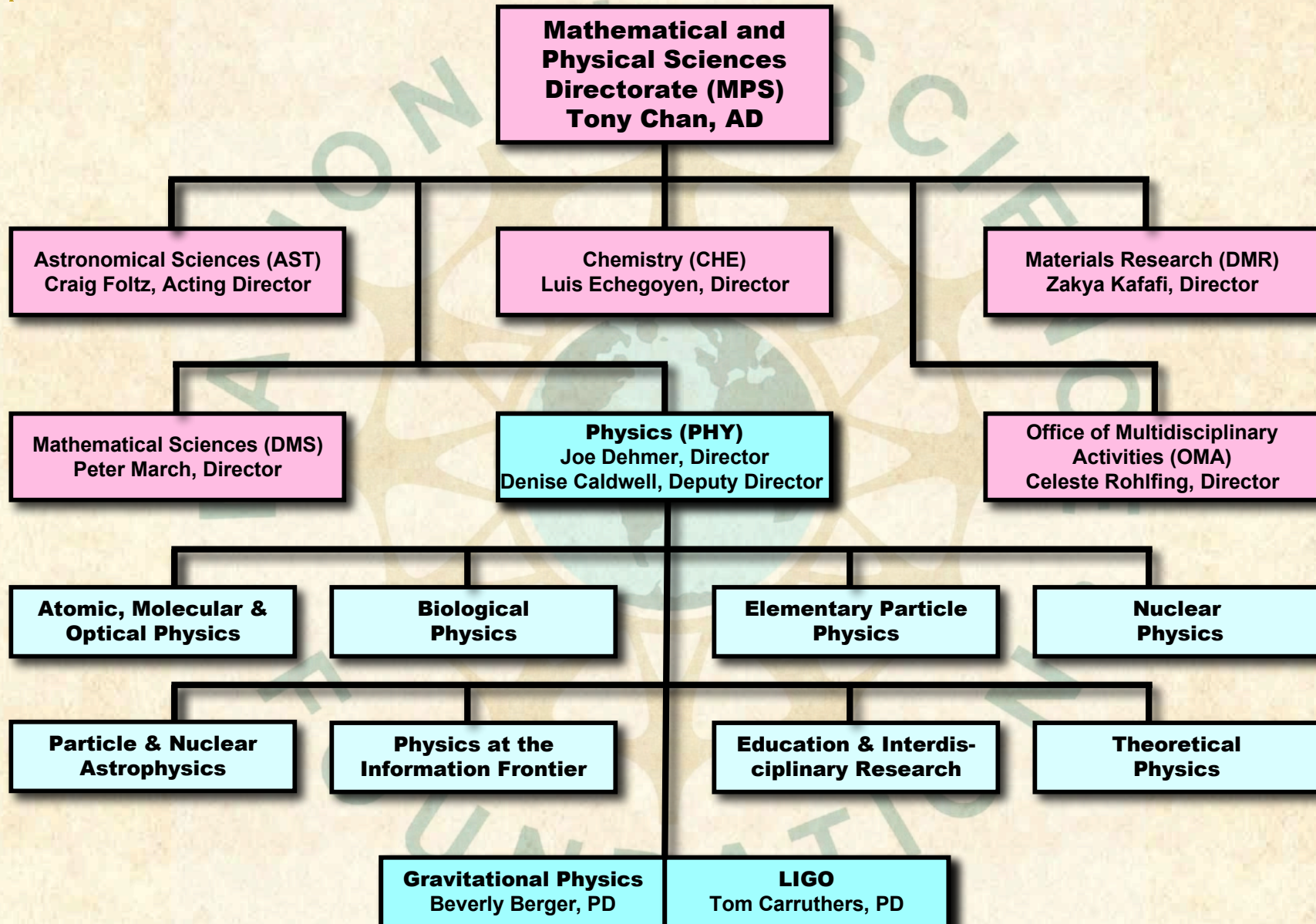


NSF Organization



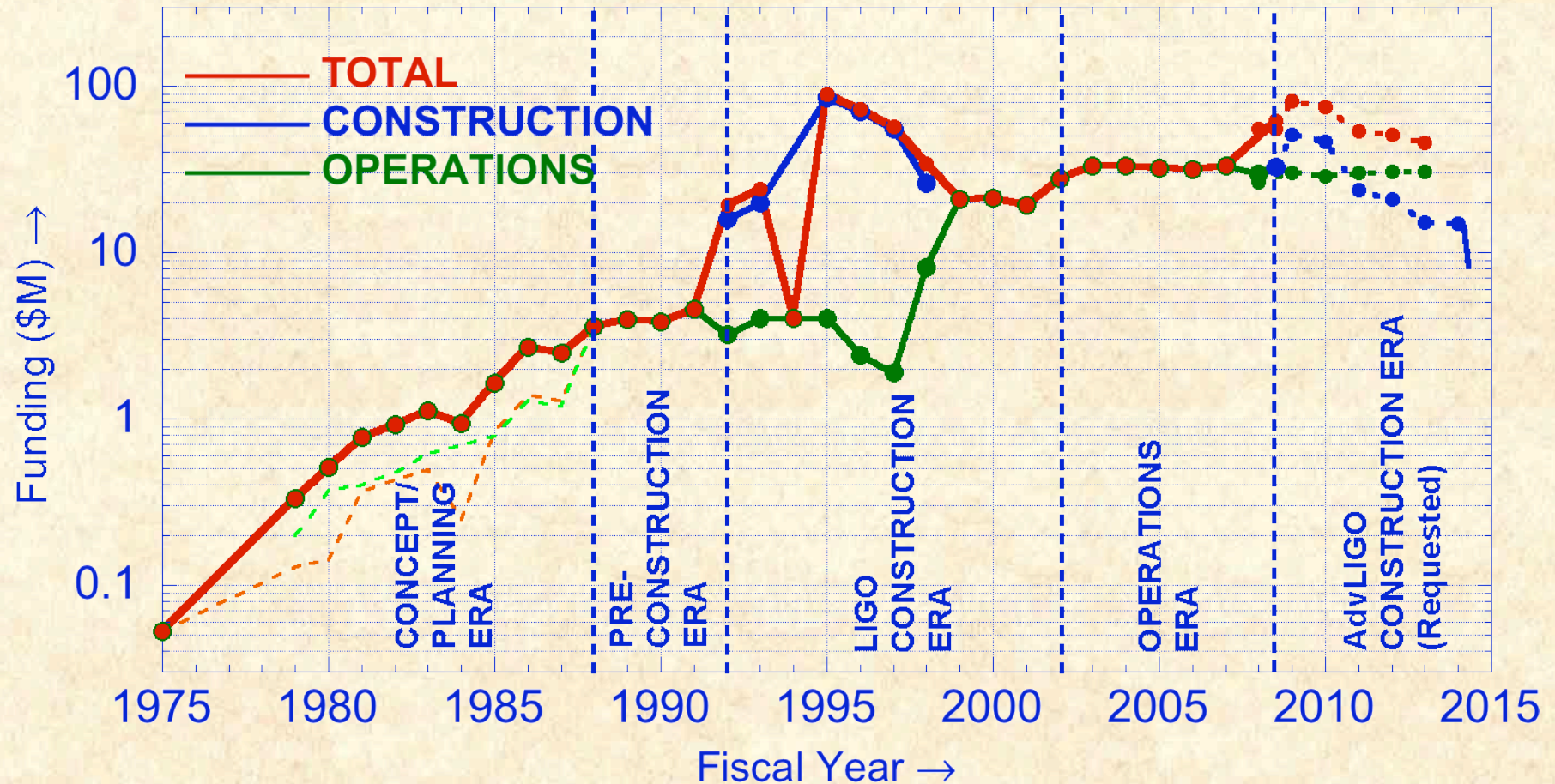


MPS and Physics





NSF Support of Interferometric Gravitational-Wave Detectors





NSF Progress on LIGO

- **Advanced LIGO construction project was approved;** the project started April 2008.
 - Initial activity is the placing of long lead-time orders.
 - The procurement system is working; all FY08 major subawards have recently been approved.
- **A new LIGO Cooperative Agreement** runs from FY 2009 through FY 2013;
 - Current CA extended for 6 months.
- The case for a **revised AdvLIGO budget profile** was presented to the MREFC board and the NSB, as was...
- ...LIGO's plans for a **Hanford outreach center**.



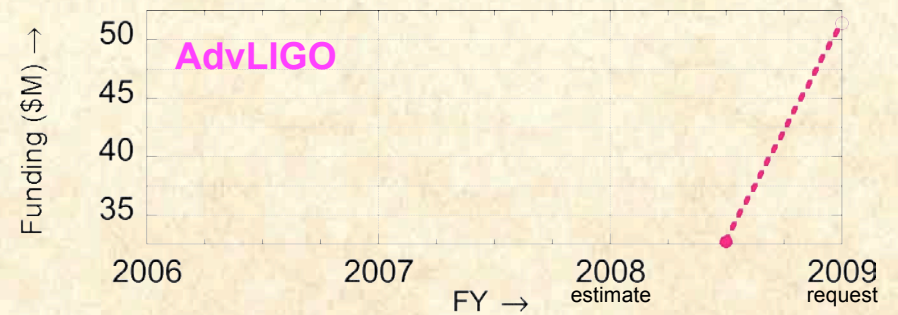
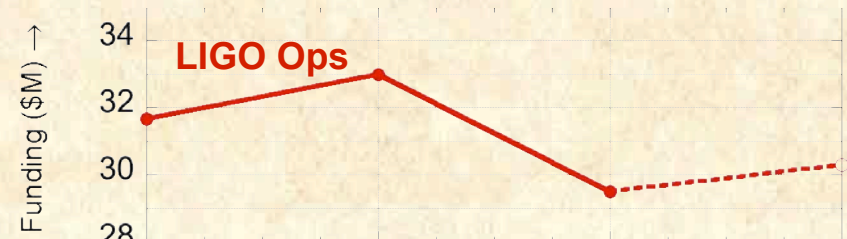
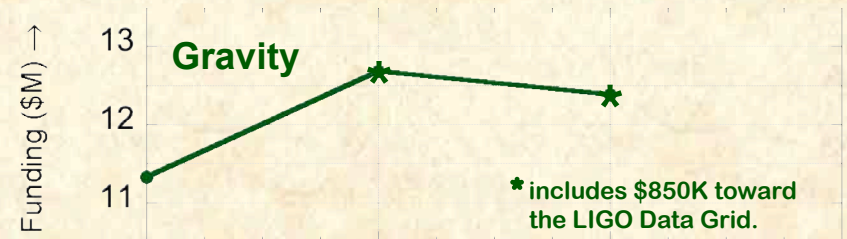
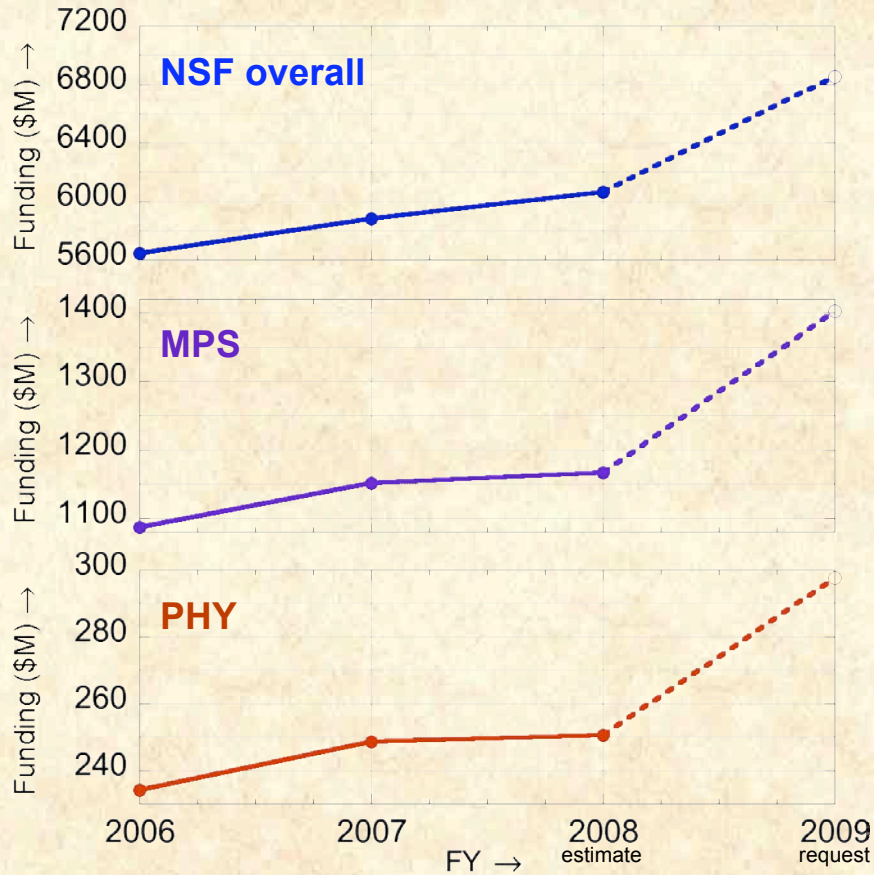


Upcoming LIGO Reviews

- **Annual LIGO review and first AdvLIGO review**
at Caltech, November 18–20, 2008
 - *LIGO*: Operations, diversity, Enhanced LIGO, AdvLIGO R&D
 - *AdvLIGO*: Fund separation, schedule, budget, risk and risk management
- **Hanford Outreach Center review**— Winter 2008/9
- **LIGO data release policy review**— Winter 2008/9
- **Advanced LIGO Spring review**— Spring 2009
dates and places tbd



The NSF Funding Picture





The NSF Funding Picture

(DOLLARS IN MILLIONS) ↓	FY'06	FY'07	FY'08 estimate	FY'09 request	CHANGE '08 - '09
NSF	5646	5884	6065	6854	13.0%
MPS	1087	1151	1167	1403	20.2%
PHY	234.1	248.5	250.5	297.7	18.8%
GRAVITY CORE	11.33	12.68*	12.38*	—	—
LIGO OPS	31.68	33.00	29.50	30.30	2.7%
AdvLIGO CONST.	—	—	32.75	51.43	57.0%

*includes \$850K toward the LIGO Data Grid.



- **Gravitational & Theoretical Physics proposals are due Sept. 24!**

- **Active NSF Funding Opportunities**

http://www.nsf.gov → Funding → Upcoming Due Dates

or

http://www.nsf.gov/funding/pgm_list.jsp?org=NSF&ord=date



Examples:

- › **Integrative Graduate Education and Research Traineeship Program (IGERT)** Oct 20, 2008
- › **Physics at the Information Frontier (PIF)** Oct 22, 2008
- › **Petascale Simulations and Analysis (PetaApps)** Oct 30, 2008
- › **Graduate Research Fellowship Program (GRFP)** Nov 3, 2008
- › **Cyber-Enabled Discovery and Innovation (CDI)** Prelim Dec 8, 2008
- › **Major Research Instrumentation Program (MRI)** Jan 22, 2009
- › **Faculty Early Career Development (CAREER) Program** Jul 21, 2009
- › **Mathematics, Engineering, Astrophysics, ...**

>400 in all.

nsf.gov - Office of International Science and Engin...pportunities - US National Science Foundation (NSF)

http://www.nsf.gov/funding/pgm_list.jsp?org=OISE

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Office of International Science & Engineering (OISE):

- › **Developing Global Scientists and Engineers (International Research Experiences for Students (IRES))** **Anytime**
- › **Doctoral Dissertation Enhancement Projects (DDEP)** **Anytime**
- › **International Research and Education: Planning Visits and Workshops** **Anytime**



*Thank you —
and good hunting!*

