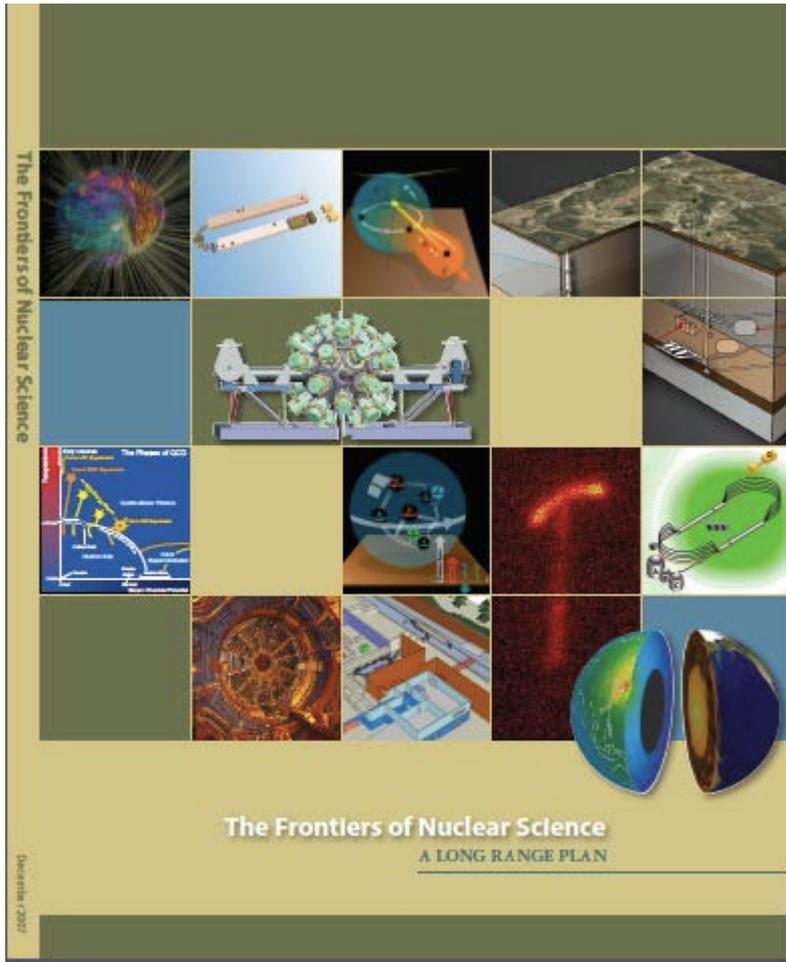


Status of Planning for the 2015 NSAC Long Range Plan

Donald Geesaman
Chair, NSAC



Charge to NSAC to Develop a New Long Range Plan



U.S. Department of Energy
and the
National Science Foundation



Dr. Donald Geesaman
Chair
DOE/NSF Nuclear Science Advisory Committee
Argonne National Laboratory
9800 South Cass Avenue
Argonne, Illinois 60439

Dear Dr. Geesaman:

This letter requests that the Department of Energy (DOE)/National Science Foundation (NSF) Nuclear Science Advisory Committee (NSAC) conduct a new study of the opportunities and priorities for United States nuclear physics research and recommend a long range plan that will provide a framework for coordinated advancement of the Nation's nuclear science research programs over the next decade. This exercise should exclude the DOE Isotope Program managed by the DOE Office of Science's Office of Nuclear Physics, for which a dedicated strategic planning exercise will be convened.

Charge to NSAC to Develop a New Long Range Plan

The new NSAC Long Range Plan (LRP) should articulate the scope and the scientific challenges of nuclear physics today, what progress has been made since the last LRP, and the impacts of these accomplishments both within and outside of the field. It should identify and prioritize the most compelling scientific opportunities for the U.S. program to pursue over the next decade and articulate their scientific impact. A national coordinated strategy for the use of existing and planned capabilities, both domestic and international, and the rationale for new investments should be articulated. To be most helpful, the LRP should indicate what resources and funding levels would be required (including construction of new facilities, mid-scale instrumentation, and Major Items of Equipment) to maintain a world-leadership position in nuclear physics research and what the impacts are and priorities should be if the funding available provides for constant level of effort from the FY 2015 President's Budget Request into the out-years (FY 2016-2025), with constant level of effort defined using the published OMB inflators for FY 2016 through FY 2025. A key element of the new NSAC LRP should be the Program's sustainability under the budget scenarios considered.

The extent, benefits, impacts and opportunities of international coordination and collaborations afforded by current and planned major facilities and experiments in the U.S. and other countries, and of interagency coordination and collaboration in cross-cutting scientific opportunities identified in studies involving different scientific disciplines should be specifically addressed and articulated in the report. The scientific

Charge to NSAC to Develop a New Long Range Plan

impacts of synergies with neighboring research disciplines and further opportunities for mutually beneficial interactions with outside disciplines, should be discussed.

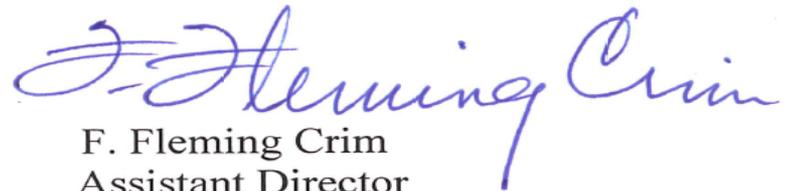
In the development of previous LRP's, the Division of Nuclear Physics of the American Physical Society (DNP/APS) was instrumental in obtaining broad community input by organizing town meetings of different nuclear physics sub-disciplines. The Division of Nuclear Chemistry and Technology of the American Chemical Society (DNC&T/ACS) was also involved. We encourage NSAC to exploit this method of obtaining widespread input again, and to further engage both the DNP/APS and DNC&T/ACS in laying out the broader issues of contributions of nuclear science research to society.

Please submit your report to DOE and NSF by October 2015. The agencies very much appreciate NSAC's willingness to undertake this task. NSAC's previous LRP's have played a critical role in shaping the Nation's nuclear science research effort. Based on NSAC's laudable efforts in the past, we look forward to a new plan that can be used to chart a vital and forefront scientific program into the next decade.

Sincerely,



Patricia M. Dehmer
Acting Director
Office of Science



F. Fleming Crim
Assistant Director
Directorate for Mathematical
and Physical Sciences

Anticipated LRP Schedule

- ✓ Charge delivered at 24 April NSAC Meeting
- ✓ LRP Working Group formed in early June ~ 60 members
- Some international members will soon be added.
- Community organization this summer
- DNP town meetings in the July/September
- Joint APS-DNP-JPS Meeting Oct 7-11, 2014
- Time for more community meetings in November- January
- White papers by end of January
- Resolution meeting of Long Range Plan working group in late March or Early April. Likely Thursday to Monday or Wednesday to Sunday.
- LRP final report due October 2015



Long Range Plan Working Group

NSAC Members + DNP Chair Line +

Helen Caines	Yale	Augusto Machiaveli	LBNL
Jolie Cizewski	Rutgers	Naomi Makins	UIUC
David Dean	ORNL	Zein-eddine Meziani	Temple
Rolf Ent	TJNAF	Richard Milner	MIT
Renee Faremi	Kentucky	Michael Ramsey-Musolf	Massachusetts
Bradley Filippone	Caltech	Witold Nazarewicz	MSU
Geroge Fuller	UCSD	Hamish Robertson	Washington
Carl Gagliardi	Texas A&M	David Radford	ORNL
Geoff Greene	Tennessee	Krishna Rajagopal	MIT
David Hertzog	Washington	Thomas Roser	BNL
Calvin Howell	Duke	Martin Savage	Washingotn
Andrew Hutton	TJNAF	Guy Savard	ANL
Peter Jacobs	LBNL	Julia Velkowska	Vanderbilt
Reiner Kruecken	TRIUMF	Steve Vigdor	Indiana
Sebastian Kuhn	ODU	John Wilkerson	North Carolina
Krishna Kumar	Stony Brook	Willam Zajc	Columbia
Zheng-tian Lu	ANL	Two still to be added!	

No more than three from any one institution

The Long Range Plan Has Been Discussed at All the Facility Users Group Meetings

- ATLAS Strategic Plan Meeting: May 15-16
- JLAB Users Group Meeting: June 2-4
- ARUNA Workshop: June 12-13
- RHIC and AGS Users Group Meeting: June 17-20
- EIC Users Group Meeting: June 24-27

Town Meetings

- High Performance Computing: July 14-15, Washington, DC
- Education and Innovation: Early August, MSU
- Nuclear Structure and Astrophysics: August 21-23, College Station, TX
- OCD: September 13-15, Temple
- Fundamental Symmetries: Sept 28-29, Chicago

See <http://www.aps.org/units/dnp/meetings/town.cfm>

DOE has confirmed that travel to these LRP community activities does not involve conference travel under the DOE travel order.

Other Ideas

- I will chair the LRP
- I will make writing assignments this summer
 - Four science areas
 - Education and Workforce
 - Applications/ Societal Benefits
 - International context
 - Budgets
- Still discussing nature of the report to optimize effect.
- There will be cost estimate reviews of the major projects, i.e. EIC, in the December-January time scale to check scale, not to provide a detailed estimate.

Summary

- There are exciting new scientific challenges across nuclear physics.
- There has been major progress in fulfilling the promise of the 2007 Long Range Plan.
- The new Long Range Plan is the time for the community to say what the future should be.
- The issues we face are complex, balancing research, operations and construction, but the opportunities appear very bright.