



**H.Res. 487 - Recognizing the contribution of modeling and simulation technology to the security and prosperity of the United States, and recognizing modeling and simulation as a National Critical Technology**

**Floor Situation**

H.Res. 487 is being considered on the floor under suspension of the rules and will require a two-thirds majority vote for passage. This legislation was introduced by Representative Randy Forbes (R-VA) on June 14, 2007. The bill was referred to the House Committee on Science and Technology and was passed via voice vote.

The bill is expected to be considered on the floor on July 16, 2007.

**Summary**

H.Res. 487 commends those who have contributed to the modeling and simulation efforts, which have developed essential characteristics of our Nation. The legislation urges that, consistent with previous legislation passed by this and previous Congresses, science, technology, engineering, and mathematics remain key disciplines for primary and secondary education. Additionally, it encourages the expansion of modeling and simulation as a tool and subject within higher education and recognizes modeling and simulation as a National Critical Technology.

H.Res. 487 affirms the need to study the national economic impact of modeling and simulation, supports the development and implementation of governmental classification codes that include separate classification for modeling and simulation occupations, and encourages the development and implementation of ways to protect intellectual property of modeling and simulation enterprises.

**Background**

The Department of Defense's Defense Modeling and Simulation Office defines Modeling and Simulation as: "The use of models, including emulators, prototypes, simulators, and stimulators, either statically or over time, to develop data as a basis for making managerial or technical decisions. The terms "modeling" and "simulation" are often used interchangeably" ([DoD Defense Modeling and Simulation Office Online Glossary](#)).

Modeling and simulation in the United States is a unique application of computer science and mathematics that depends on the validity, verification, and reproducibility of the

model or simulation, and depends also on the capability of the thousands of Americans in modeling and simulation careers to develop these models. Members of the modeling and simulation community in government, industry, and academia have made significant contributions to the general welfare of the United States.

Through the help of modeling and simulation the community has been able to contribute to providing vital strategic support functions to our Military, defending our freedom and advancing United States interests around the world.

It has led to advancements in promoting better health care through improved medical training, improved quality of care, reduced medical errors, and reduced cost.

Modeling and simulation have also helped in encouraging comprehensive planning for national disaster and emergency preparedness response by improving and securing our critical infrastructure and transportation systems.

**Cost**

This bill has not been scored by the Congressional Budget Office.

**Staff Contact**

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