AMENDMENT TO RULES COMMITTEE PRINT 116–57

OFFERED BY MR. RODNEY DAVIS OF ILLINOIS

At the end of subtitle E of title XVII, add the following new section:

SEC. 17. BUILDING UNITED STATES CAPACITY FOR VERIFICATION AND MANUFACTURING OF ADVANCED MICROELECTRONICS.

(a) IN GENERAL.—The Secretary of Commerce, acting through the Director of the National Institute of Standards and Technology, shall carry out research and development to enable advances and breakthroughs in measurement science, standards, material characterization, instrumentation, testing, and manufacturing capabilities that will accelerate the underlying research and development for design, development, and manufacturability of next generation microelectronics and ensure the competitiveness and leadership of the United States within the microelectronics sector.

(b) ELEMENTS.—The activities under subsection (a) shall include research and development in the following areas:
(1) Advanced metrology and characterization for manufacturing of microchips using 3 nanometer transistor processes or more advanced processes.

(2) Metrology for security and supply chain verification, including pre-silicon security verification of the design for logical and physical vulnerabilities beyond current functional analysis.