

By: Zedler

H.R. No. 941

R E S O L U T I O N

1 WHEREAS, The University of Texas at Arlington has been  
2 awarded a \$3 million grant from the National Science Foundation  
3 (NSF) to develop a supercomputer cluster that will connect with the  
4 new international atomic supercollider in Geneva, Switzerland; and

5 WHEREAS, Known as the Large Hadron Collider (LHC), this  
6 supercollider is presently under construction at CERN, the largest  
7 particle physics laboratory in the world; with seven times more  
8 power than the current facility at the Fermi National Accelerator  
9 Laboratory in Illinois, the new supercollider is expected to become  
10 operational in 2007-2008; it is hoped that research made possible  
11 by the LHC will help to answer such fundamental questions of physics  
12 as those concerning the properties of matter and the origin of mass;  
13 and

14 WHEREAS, Experiments conducted with the supercollider will  
15 involve 2,000 physicists and require an enormous amount of  
16 computing power; to address the need for such a tremendous  
17 capacity, an international grid composed of tiers of computing  
18 centers is being developed; and

19 WHEREAS, In the United States, the Fermi and Brookhaven  
20 national laboratories were designated as tier-one centers in 2001;  
21 they are being joined now by three tier-two centers: UT-Arlington,  
22 Boston University-Harvard University, and the University of  
23 Chicago-Indiana University; and

24 WHEREAS, A team of UT-Arlington scientists, led by the noted

1 physicist Dr. Kaushik De, designed the university's winning  
2 proposal, which was judged superior to plans offered by such  
3 eminent competing institutions as the University of California at  
4 Berkeley, Duke University, and the University of Michigan; a  
5 Southwest consortium, consisting of the University of Oklahoma,  
6 Langston University, and the University of New Mexico, will work  
7 with UT-Arlington on building its networks; and

8 WHEREAS, Extending over five years, the NSF grant to  
9 UT-Arlington is designed to cover the initial cost of acquiring  
10 computers; when the new computing grid is joined to the  
11 supercollider, it will mark the next important step in the  
12 evolution of the Internet and World Wide Web computing; and

13 WHEREAS, Even before UT-Arlington was selected as one of the  
14 new computing centers, the school had been involved in the work at  
15 CERN through its help with the construction of a giant microscope  
16 known as ATLAS; housed underground adjacent to the supercollider,  
17 ATLAS stands eight stories tall and boasts a footprint the size of a  
18 football field; portions of the microscope were built at  
19 UT-Arlington, which shipped 135 half-ton boxes of ATLAS parts to  
20 Geneva; and

21 WHEREAS, Through its participation in the creation of an  
22 international computer grid to support research conducted with the  
23 new supercollider, UT-Arlington is adding to the luster of this  
24 state and making a vital contribution to the advancement of human  
25 knowledge; now, therefore, be it

26 RESOLVED, That the House of Representatives of the 79th Texas  
27 Legislature hereby congratulate The University of Texas at

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1 Arlington on its receipt of a \$3 million grant from the National  
2 Science Foundation and on its designation as a supercollider  
3 network computing site and extend to all those associated with this  
4 project sincere best wishes for continued success.