

By: Taylor of Collin

H.R. No. 800

R E S O L U T I O N

1 WHEREAS, Amy Chyao, a student at Plano East Senior High
2 School, won the top prize at the 2010 Intel International Science
3 and Engineering Fair, the largest precollege science fair
4 competition in the world; and

5 WHEREAS, This talented high school junior joined The
6 University of Texas at Dallas George A. Jeffrey NanoExplorers
7 Program in the summer of 2009 and worked with Dr. Kenneth J. Balkus,
8 Jr., a professor in the chemistry department, on efforts to develop
9 novel photocatalysts; Ms. Chyao's research, funded by the National
10 Institutes of Health, involves semiconducting nanoparticles that,
11 when exposed to certain wavelengths of light, generate a form of
12 oxygen deadly to cancer cells; this photodynamic therapy could
13 yield a way to treat cancers beneath the skin by using targeted
14 lasers; and

15 WHEREAS, At the 2010 Intel science fair in San Jose,
16 California, Ms. Chyao beat out more than 1,600 students from 59
17 countries to win the top honor, the Gordon E. Moore Award; the award
18 is accompanied by a \$75,000 prize, which she hopes to put toward the
19 cost of medical school; after her Intel International win, she
20 attended the 2010 White House Science Fair to showcase her research
21 and talk with President Barack Obama, and she was invited by the
22 president to attend the 2011 State of the Union address; and

23 WHEREAS, Ms. Chyao also participated in the First Step to
24 Nobel Prize in Physics training program in 2009, working with

1 leading scientists for two weeks in Poland; she is active in the
2 Learning About Science and Engineering Research program, competes
3 in University Interscholastic League math and science matches, and
4 has been a part of the UT Dallas Metroplex Math Circle and
5 AwesomeMath camps; and

6 WHEREAS, In addition to her scientific pursuits, Ms. Chyao
7 plays the cello in her school's chamber orchestra and in the Greater
8 Dallas Youth Orchestra; she takes part in the National Honor
9 Society, Future Business Leaders of America, Orchestra Council, and
10 the Spanish and environmental clubs at her school, and she is a
11 student advisor in the Plano Youth Leadership program and
12 volunteers as an attorney in Teen Court; moreover, she founded and
13 leads Spell Success, an organization that aims to inspire students
14 in spelling, vocabulary, and public speaking, and she competed in
15 the Scripps National Spelling Bee at the age of 13; and

16 WHEREAS, Amy Chyao has won the attention and respect of the
17 scientific community and of elected officials at the highest levels
18 of government, and her abilities, hard work, and commitment to
19 excellence have surely opened the way to limitless opportunities
20 for this extraordinary young Texan; now, therefore, be it

21 RESOLVED, That the House of Representatives of the 82nd Texas
22 Legislature hereby honor 2010 Intel International Science and
23 Engineering Fair winner Amy Chyao for her remarkable scientific and
24 academic achievements and extend to her sincere best wishes for
25 continued success; and, be it further

26 RESOLVED, That an official copy of this resolution be
27 prepared for Ms. Chyao as an expression of high regard by the Texas

H.R. No. 800

1 House of Representatives.