

- I received the 2000 SMU President's Associates Outstanding Faculty Award in recognition of my research and teaching accomplishments. This is a competitive university-wide award open to all tenured faculty.  
([www.smu.edu/~cte/](http://www.smu.edu/~cte/))
- My research has received wide recognition. Four of my papers have been designated as "Famous" (100+ citations), and a fifth has been designated as "Renowned" (500+ citations).  
(Standardized designations based upon citations as recorded in the Spires database: <http://heplibw3.slac.stanford.edu/spires>)
- My "Renowned" paper was the most cited paper in the High Energy Physics Phenomenology (hep-ph) archive in 1999. I believe that this achievement is without precedent at SMU physics.  
(Details available at: <http://www.slac.stanford.edu/library/topcites/top40.1999.E.hep-ph.2.html>)
- I initiated the first DOE Theory grant at SMU in May 1992. We have received continuous funding since.
- I am co-PI on the DOE grant, and am responsible for the Theory Task. In addition to faculty travel and summer salaries, this grant supports a theory postdoc.
- In 2000, Prof. Stroynowski and I received two QuarkNet Grants (from NSF and US-ATLAS) to involve local high school science teachers in high energy particle physics research. We mentored three teachers during Summer 2000, and organized a 2-week workshop in Summer 2001 for 18 area teachers, and held a follow-up workshop in 2002. This program will impact hundreds of high school science students in the Dallas area.
- Over the past 5 years I have given over 50 presentations including 7 invited conference plenary presentations, and 9 school/pedagogical presentations. I was recently invited as the keynote banquet speaker for the four-state Regional SPS meeting at the University of Louisville.
- As a member of the CTEQ collaboration, I helped organize a series of international summer schools for graduate students and postdocs. The 1995 summer school was co-organized with the German science laboratory (DESY) and held in Bad Lauterberg, Germany. The 1998 summer school was co-organized with the Italian science ministry (INFN) and held in Courmayeur, Italy. A 2001 CTEQ summer school was held in conjunction with the new United Kingdom Institute for Particle Physics Phenomenology (IPPP) located at the University Durham. The 2002 school was held in Madison WI. ([www.cteq.org](http://www.cteq.org))
- I spent the 1997-98 year on sabbatical with the Fermilab Theory Group working with both theorists, and experimentalists in the NuTeV, D-Zero, and CDF collaborations. This type of interaction is essential to maintain prominence in the field.
- I received an SSC Fellowship in 1993 as one of 6 Theory Faculty selected in a nationwide competition. This award included approximately \$100K in salary, travel, and equipment.
- I have advised or conducted research projects with 9 graduate students during my term at SMU.

- I have consistently received outstanding recommendations from my students. In 10 years of teaching introductory physics at SMU, median scores have always been at least 9 out of 10 (old system).

*My receipt of the 2000 SMU President's Associates Outstanding Faculty Award was based, in part, on my teaching performance.*

- Undergraduate Physics Co-Advisor, 1998-present. During the period 1998-2000, I increased the number of physics majors from 4 to 12. This group of students is of exceptional quality, and counts six President's Scholars in their ranks.
- I received a H.O.P.E. (Honored on Professor Excellence) Award in both 1999 and 2000. Recipients are selected, based upon teaching excellence, by the SMU student RA's. In 2001 I received the H.O.P.E. Distinguished Honoree award.
- In 2000, I developed a new physics course (PHYS 1320, Music & Physics) in collaboration with Professor Tom Tunks of the Meadows School of Music. We are offered this course again in 2001 and the course was 10% over-booked with a waiting list of students.

*I am also a trumpet player, and have performed baroque and classical trumpet solos for weddings and other events; most recently I performed some piccolo trumpet solos for University services at Perkins Chapel on 9 April 2000 and 5 November 2000.*

- We are using my book ***Mathematica for Physics*** (Addison-Wesley) to incorporate the computer algebra program *Mathematica* into the introductory physics curriculum. In 1993 I received an Instructional Technology Grant to purchase *Mathematica* for the university and to incorporate computer projects into the undergraduate physics curriculum. ***Mathematica for Physics*** is widely used as a supplement for intermediate-level physics courses; over 4000 copies have been sold. A revised and expanded 2nd edition is in press and schedule for release in Fall 2002. The first edition has been released in a Japanese translation.
- Public Outreach: I often present public lectures in the Dallas area to youth and adult groups. The most often requested presentations are: "Physics Circus" and "Music & Physics." The series has been well received as both entertaining and educational.
- I am presently serving as Co-Director of the Dallas Regional Science Fair. This year, more than 1000 seventh through twelfth grade students from 20 Dallas-area schools will be judged for creative ability, scientific thought, skill, thoroughness and clarity by more than 300 volunteer judges from area businesses, professional organizations and schools. ([www.DallasScienceFair.org](http://www.DallasScienceFair.org))

*What we have to learn to do, we learn by doing.*

Aristotle