

CORNELL UNIVERSITY
300 DAY HALL
ITHACA, N. Y. 14853-2801

Office of the President

June 8, 1994

Mr. Paul V. Sheridan
22357 Columbia
Dearborn, MI 48124

Dear Paul:

Thank you for your letter of June 3, which I was happy to receive. Congratulations to you, Al George, and all the team members on another outstanding performance in the Formula SAE competition. I am pleased to see that the team continues to perform so strongly.

I should be delighted to meet with the members of the Cornell team. I presume this is likely to be sometime during the next academic year, and I hope that Al George will let me know when such a meeting might be convenient.

I look forward to viewing the video tape that you were kind enough to send me.

With my warmest thanks for your leadership in this important venture and all good wishes,

Sincerely yours,



Frank H. T. Rhodes

cc: Professor Al George
Ms. Barbara Clark

22357 Columbia
Dearborn, MI 48124
(H) 313-277-5095
(O) 810-576-4824

03 June 1994

President Frank H. T. Rhodes
Cornell University
300 Day Hall
Ithaca, New York 14853

Subject: Cornell Formula SAE Team (CFSAE)

Dear President Rhodes:

Nearly ten years ago (ouch!) I wrote to you regarding the "midcareer" program that was being developed at Harvard. The subject is somewhat related to that discussion.

For the recent (May 19 thru 22) *Formula SAE* competition I was honored to be the steward for the Cornell team. The steward is a general event manager, attempting to coordinate/facilitate the general logistical needs of the team to which the steward is assigned...plenty of running around! This year's event was again held in Michigan.

This year CFSAE finished third-overall out of seventy-eight entries; while placing in several important "special events". As you know, CFSAE won the 1992 event, and dominated in 1993 during a repeat win. CFSAE is recognized as a-force-to-be-reckoned-with by not only the competition, but by event organizers and sponsors as well. The latter represents significant career opportunities for CFSAE members; this is an understated purpose of *Formula SAE*. Indeed, many of the senior members of CFSAE will be moving to Michigan this summer, having accepted professional engineering positions in the area. As you can intuit, *Formula SAE* has significant corporate relations/development potential for the University.

Relevant to the "midcareer" discussion is the impact that experienced people can have on students, both objectively and subjectively. Prior to this year's event I paid two separate visits to Upson Hall to introduce myself as steward, and provide assistance within the *Formula SAE* guidelines. Despite a recognized degree of technical expertise, I am told that the greatest impact my stewardship had was on the morale of the team...on the subjective. I had detected this potential during telephone conversations with the team prior to my first visit. It was in that context that I subsequently arranged for a visit with the team by Dean Hopcroft, with whom I confirmed the pertinence of the CFSAE activity as a "Chrysler guy". I also confirmed with the Dean that Professor George is seen as a key element in CFSAE's success among *Formula SAE* organizers and sponsors.

President Frank H. T. Rhodes
03 June 1994

We are already discussing plans for the 1995 CFSAE entry. Our intention is to win. During the course of the 1995 program perhaps you would like to visit with the young men and women of the Cornell team. They would thoroughly enjoy hosting you. As you know, the University features the team on the College Videos promotional tape. To give you an idea of the scope of *Formula SAE*, I have enclosed a 1993 edition of their tape. Note the prominence of Cornell.

When we think in terms of the impact various "extra" activities will have on the viability of our students, and therefore society, there are not many events that are as comprehensive as CFSAE. In addition to teamwork, organization, communications, etc. the CFSAE member becomes an expert or has practical exposure to electronic, mechanical and computer engineering; aerodynamics, materials science, etc. The team member learns mechanic skills from welding to tool selection, care and usage. The business skills from cost accounting to procedural and historical documentation are also an integral part of the task. There are others. All of these disciplines are relevant to the viability of a human society that is destined to become increasingly technological, increasingly responsible and ultimately peaceful. In terms of the 21st century, "extra" activity such as CFSAE is probably more relevant than...dare I say it...football. This is especially true when you recognize that *Formula SAE* is an international event.

Please take a moment to view the enclosed video tape (run time: 11 minutes).

Sincerely and respectfully,



Paul V. Sheridan
MBA: Class of 1980

cc: A. George
J. Hopcroft

enclosure

CORNELL UNIVERSITY

FRANK H. T. RHODES
PRESIDENT

December 7, 1984

Mr. Paul V. Sheridan
22351 Columbia
Dearborn, MI 48124


Dear Mr. Sheridan:

Thank you for your letter of November 28 and for your kindness in sending me a copy of the article from the Times Herald Record. We are at present looking at the whole question of continuing professional development, and I am therefore sending a copy of your letter to my colleague Provost Bob Barker, who is setting up a detailed review of the subject.

I greatly appreciate your thoughtfulness in writing.

With all good wishes,

Sincerely yours,



Frank H. T. Rhodes

cc: Robert Barker

22351 Columbia
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(H) 313/562-1999
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November 28, 1984

President Frank H. T. Rhodes
Cornell University
300 Day Hall
Ithaca, NY 14853

Dear President Rhodes:

I thought the attached newspaper article would be of interest to you. It discusses Harvard's Graduate School of Education "midcareer" program designed for professionals interested in a second career as high school educators. Although I am not certain of the level, I have periodically considered a second career in teaching upon completion of my first million (or so) as a Cornell MBA.

The point is that given this midcareer direction, I would prefer to prepare for that task at Cornell, as a loyal Cornell alumnus. It is in this regard that I hope you find the attached article of interest.

Sincerely and respectfully,



Paul V. Sheridan
(MBA: Class of 1980)

attachment
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Engineers switch to teaching science

CAMBRIDGE, Mass. (AP) — Anthony Copas worked as a chemical engineer. Peter Booras was a retired Army colonel. This fall they began new lives, teaching math and science to high school students.

Copas and Booras are among the first graduates of a special Harvard University program designed to meet the growing demand for math and science teachers at the high school level.

Bucking the trend that has seen teachers leave school for better-paying jobs, Harvard has begun training retirees, professionals and housewives to fill the gaps in the nation's classrooms.

"They're coming into this as a matter of choice," said Katherine Merseth, who heads Harvard's Midcareer Math and Science Program. "They say, 'I loved physics and I want some kid to love it the way I did.'"

Patricia Albjerg Graham, dean of Harvard's Graduate School of Education, began the program last year to counter the crisis developing in the nation's schools.

Ms. Graham cited recent studies that show more than 40 states have shortages in math and science teachers.

"What this means is that people who are not trained thoroughly are teaching math and science," said Ms. Graham.

The main reason is money. The National Education Association says a starting math teacher earns around \$13,000 a year, a graduate with an engineering degree can command an annual salary of \$22,000.

And the number of people between 18 and 25 — the age group that traditionally provides new teachers — will shrink by 25 percent over the next decade nationwide and by 41 percent in New England, Ms. Merseth said.

"We said to ourselves we have to find an alternative labor pool for these kinds of teachers," she said.

So the Harvard program targets what Ms. Merseth calls "midcareer professionals" — people with the skills and training in industry who are interested in a new career.

These professionals include retirees whose pensions would supplement their teaching salaries. Other teaching candidates are professionals who have earned enough to coast comfortably on smaller paychecks.

"The cash demands on a midcareer person are different," said Ms. Merseth. "They may have paid off their mortgage. Their children may have finished college."

But the Harvard program also attracts candidates who want to contribute to society.

"There is a strong sense of service among these people," said Ms. Merseth. "A strong sense that they were successful because they had a good teacher and now they want to return that."

Harvard began the nine-month course in the fall of 1983 with a small class ranging in age from 28 to 60. The class included two retirees, two engineers, a woman optical scientist and a housewife with degrees in biology and philosophy.

Half their time was spent at the university, learning teaching techniques; the other half is spent out in the field, as an assistant teacher in one of the Boston-area high schools.

All six have found teaching jobs. "The demand is very strong and the schools are very positive about the people," said Ms. Merseth.



Anthony Copas, left, of Medfield, Mass., and Harold Ingels, right, of Willington, Mass., study together at Harvard University in Cambridge, Mass.

The class was expanded to 30 this fall. Some 30 other universities, including Rutgers and the University of California at Berkeley are interested in starting similar programs, Ms. Graham said.

The University of Vermont has already started a similar program, training retirees for teaching jobs.

There's great interest in the program.

Ms. Merseth said Harvard has received 45 applications from would-be teachers and she receives daily phone calls and letters from high schools looking for teachers.

Corporations are also interested in the program. The program has received grant from Polaroid, GTE and other corporations. MITRE Corp. of Bedford, Mass., even paid the \$4,000 tuition for a retiring engineer.

CORNELL UNIVERSITY

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and Aerospace Engineering
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email: arg2@cornell.edu

June 15, 1994

Paul V. Sheridan
Chrysler Corporation
800 Chrysler Drive East
Auburn Hills, MI 48326-2757

Dear Paul:

Once again, we would like to thank you for your donation of your time in support of the Cornell University Formula SAE race car team. We have just returned from our competition, which was May 19-22 at the Pontiac Silverdome in Pontiac, Michigan. With your help, we were able to place third overall (\$1000 Spirit of Excellence Award)! Our other honors included second place for TRC's safety/crashworthiness award, honorable mention for Delco Electronics Innovative Automotive Electronics Award, First for Cost Report, Fourth in Cost Event, Fourth in Presentation, Third in Acceleration, and Third in the Endurance race.

The competition weekend was beautiful and the whole team took advantage of the opportunity to gain new ideas and insights to be used for next year's car. After a summer vacation, we will once again begin the demanding but rewarding task of designing Cornell's 1995 entry. With hard work, and your help, we can continue to keep Cornell on top!

We hope you realize how your donation helps to give engineering students an extraordinary educational and real world experience. The graduating and continuing students from the Formula SAE team are especially grateful for your generosity.

Enclosed is a photograph of the ARG94 car. We hope we can continue our successful relationship in the future.

Sincerely,



A.R. George
Professor and
Formula SAE Advisor



Meade G. Titlow
1994 FSAE Project Manager

ARG:gs

Enc.

CONGRATULATIONS
CORNELL
FSAE TEAM!!

Cornell Formula SAE Results

May 19-22, 1994, Pontiac Silverdome, Michigan

Of 78 cars from the US and Canada competing
at the event:

Third Overall - "Spirit of Excellence Awards" -
767 of possible 1000 points \$1,000

Second in Safety and Crashworthiness - \$500

Third in the Endurance Race

First in Cost Report

Third in Cost Event

Third in Acceleration

Fourth in Fuel Economy

Fifth in Presentation

Honorable Mention - Delco Innovative Automotive
Electronics Award

143 Upson Hall
Cornell University
Ithaca, NY 14853
May 24, 1994

Chrysler Corp.
22357 Columbia
Dearborn, MI 48124

Dear Paul:

Thank you very much for all the help you provided us in our work on the FSAE racecar. We appreciate your effort in advising us. Your suggestions greatly enhanced the car's performance and we are proud that after it was all said and done placing third overall in the competition. Now imagine how far we can go given an entire year to work together. Most of the returning members are more than just excited about next year. We have already begun preparation for the '95 car. We plan to win every event hands down. There will be no excuse for us to not dominate the competition. We are grateful to have you as a contact and we are looking forward to continuing our relationship into the future.

Sincerely,



C. J. Kalebjian
Cornell Racing

106 The Knoll
Ithaca, NY 14850
1 June 1994

Paul Sheridan
Product Planner, Minivan Operations
Chrysler Corporation
800 Chrysler Drive
Auburn Hills, MI 48326-2757

Mr. Sheridan,

On behalf of the 1994 Cornell University Formula Race Car Team, I wish to extend to you my sincerest gratitude for your efforts. The persistence, dedication, and devotion that you have shown in helping our team before and during the competition is appreciated more than you realize and will never be forgotten. You truly went above and beyond the normal duties of a steward in helping us as a guide and a friend. The third place trophy we were awarded was a little lower than our aspirations, but nonetheless respectable among a field of over seventy cars. We couldn't have done it without you!

Once again, our deepest and sincerest thanks.



Mark Malowicki

CORNELL
UNIVERSITY

Center for Manufacturing Enterprise (CME)
106 Engineering & Theory Center
Ithaca, New York, 14853-3801

Albert R. George, Director
Telephone: (607) 255-7757
Facsimile: (607) 255-8084

June 22, 1994

Mr. Paul V. Sheridan
Chrysler Corporation
800 Chrysler Drive East
Auburn Hill, MI 48326-2757

Dear Paul:

We are most appreciative of all the time you spent with the Cornell University Formula SAE race car team. Your two visits to Ithaca, on April 21-24 and again on May 5-8 as well as your visit while we were at the competition in Detroit from May 19-22 — were extremely helpful and informative.

It is due to efforts such as yours, that our SAE Race Team can remain a viable front runner in the competition.

Sincerely,



Albert R. George
Director, CME

Chron:

CORNELL

U N I V E R S I T Y

Sibley School of Mechanical
and Aerospace Engineering
Upson Hall
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Phone: (607) 255-6254
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September 13, 1994

Mr. Paul Sheridan
Chrysler Corporation
800 Chrysler Drive East
Auburn Hills, MI 48326-2757

Dear Mr. Sheridan:

I am writing to invite you to an upcoming publicity event at which the Cornell University Hybrid Electric Vehicle (CUHEV) and the Formula SAE Race Car (FSAE) will be displayed. The Cornell Motor Sports Expo will take place on Thursday, September 22, on the Agriculture Quad between Trillium and Minns Gardens. We are using this event to publicly thank our sponsors and to increase awareness of the projects in the Cornell and surrounding communities. The cars will be on exhibit from 11:00 am until 4:00 pm. Presentations from several faculty and team members will commence at 2:00 pm. Team members will be on location to give system overviews, to discuss design objectives, and to answer questions.

The Formula SAE competition is held annually by the Society of Automotive engineers. The competition is based on a hypothetical business with the goal of producing 1000 formula style race cars, aimed at the weekend racer. The team designs, constructs, and races a state-of-the-art prototype vehicle which is then judged on its performance, engineering design, and cost of manufacture. The competition never fails to be an exciting Detroit weekend as the cars race wheel-to-wheel accelerating from 0 to 60 mph in under 4 seconds. Over 70 schools compete, never failing to draw a huge crowd of automotive engineers and racing enthusiasts.

Cornell is one of 60 schools nationwide working on reducing passenger vehicle emissions by combining electric and combustion vehicle technology in the Hybrid Electric Vehicle. The team strives to produce a viable alternative to the current gasoline powered vehicle without compromising performance characteristics. The CUHEV is primarily an electric vehicle (EV) with lead acid batteries and a dual motor powertrain. The "hybrid" part is a two cylinder methanol fueled combustion engine which serves as an on-board generator. By carrying the generator, this EV has the range characteristics of a standard gasoline powered car.

In case of rain, the event will be held in the General Motors Autolab located behind the Upson & Grumman Halls. Please join us for the presentations or pass by to get a look at the cars. We are looking forward to seeing you there.

Sincerely,



Christopher Hult
Project Manager, FSAE

CORNELL

U N I V E R S I T Y

Formula SAE Team
143 Upson Hall
Ithaca, NY 14853

Phone: (607) 255-2541
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15 September 1994

Paul V. Sheridan
Chrysler Corporation
800 Chrysler Drive East
Auburn Hills, MI 48326-2757

Dear Mr. Sheridan:

Thank you for your visit over the extended labor day weekend, September 2-6. It was good to see you again. I'm really excited about the new 94-95 Cornell FSAE Team, and I look forward to your assistance this year as our team steward for the May 1995 competition.

Sincerely,



Christopher Hult
Project Manager, FSAE

Formula SAE Team

143 Upson Hall
Ithaca, New York 14853-7501

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June 19, 1995

Mr. Paul V. Sheridan
Team Steward, Cornell Formula SAE
22357 Columbia
Dearborn, MI 48124

Reference: Formula SAE 1995

Dear Mr. Sheridan:

Once again the Cornell Formula SAE race team owes you a debt of gratitude. It is widely recognized among the eighty-plus collegiate competitors of Formula SAE, that a major factor in Cornell's ongoing success is your contribution as our team steward. If the Society of Automotive Engineers were to initiate the "Best Team Stewards" award, you would take first place. Your energy, expertise and dedication go far above what is expected of team stewards.

With your help, the 1995 Cornell race team was a major success in a field of increasingly competent and numerous entries. The 1995 award results are highlighted by:

- | | |
|------------------------------------|-------------|
| ● Spirit of Excellence (overall) | Third Place |
| ● Static Events | Third Place |
| ● Flowmaster Exhaust Technology | Third Place |
| ● HPC Advanced Coatings Technology | First Place |
| ● TRC Safety & Crashworthiness | First Place |

The Cornell Formula SAE race team is hopeful that you will be available for the 1996 event and season. On behalf of the 1995 Team; thank you very much.

Sincerely and respectfully,



C. J. Kalebjian
Team Leader

cc: A. George

CORNELL

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July 11, 1995

Mr. Paul Sheridan
22357 Columbia
Dearborn, MI 48124-3431

Dear Paul:

Once again, we would like to thank you for all your help in support of the Cornell University Formula SAE race car team in our 1995 effort. As you well know, we faced many challenges this year in the areas of sponsorship, design, testing and racing. It was comforting through it all to have an enthusiastic Steward who not only helped guide us through the competition, but was instrumental in getting us there as well.

I don't know how much of this information you have, so for the record we placed third overall (\$1000 Spirit of Excellence Award) out of a field of 84. It was the closest competition in recent history. Out of a total of 1000 points we finished within 14 points of the leader. Our other awards and honors included first place in the acceleration event, first place in safety and crashworthiness, (\$1,000) first place in HPC's Advanced Coatings Technology, (\$750) second place in the endurance race, third place in Flowmaster's Exhaust Technology, (\$250) fourth in the design event and fourth in the presentation event. After a recount, it turned out that we actually finish fourth in the static events rather than the third place which was announced at the awards banquet.

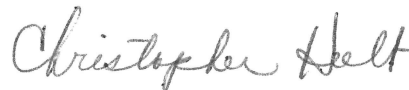
The entire team found the event enjoyable and educational. As we pitted our car against our competitors, we saw our designs at work in their ultimate test. As a result we have gained ideas and insights which will not only help us in building a better car next year but will also help us in our careers for years to come.

Enclosed is a photograph of the ARG95 car in thanks for your help in making it all happen. As we look to next year, we are excited about building on our achievements and designing a car which is even more successful. We hope we can continue our relationship and share this all with you.

Sincerely,



A.R. George
Professor and
Formula SAE Advisor



Christopher Hult
1995 FSAE Project Manager



Christopher R. Tuozzolo
1996 FSAE Project Manager

ARG:gs

Enc.