

# Guilfordian

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Mall  
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Volume LXIV No. 5

Guilford College, Greensboro, N.C. 27410

October 9, 1979

**Football team looks towards better year**

## Quakers start year strongly

By Paul Holcomb  
Staff Writer

With an impressive 3-1 start already on the record books, the 1979 Quaker football team will play the remainder of the season "physically outmanned," but fighting to pull out some upsets, according to head Coach Charles Forbes.

Beginning with the game at Mars Hill on October 6, Guilford will be battling opponents that are stronger on "paper" but nonetheless vulnerable on the football field.

The Quakers definitely possess the qualities essential to fabricate an upset. They are scrappy, smart, and, as Coach Forbes says, "they will fight tooth and nail every play."

Adding to the Quaker's hopes for an upset is the likely return of Chris Scissom and Andy Collins, two key players who have been out with injuries.

The offensive team is experienced, featuring Manny

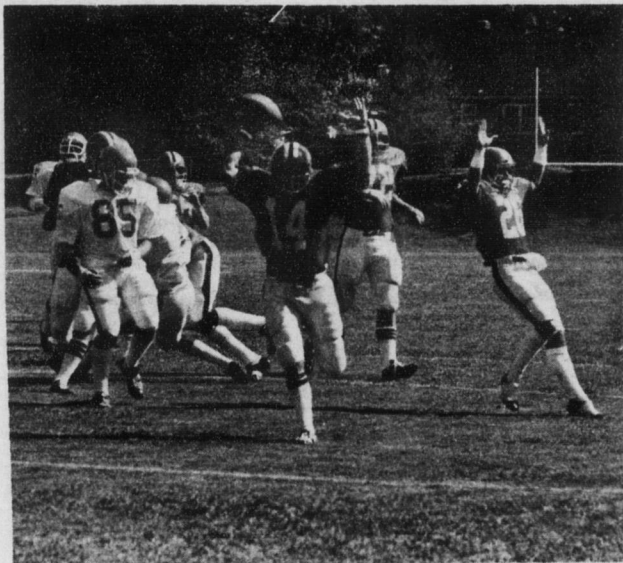


Photo by Fred King

A joyous Manny shows Towson State the stuff the Quakers are made of by ripping through their defense.

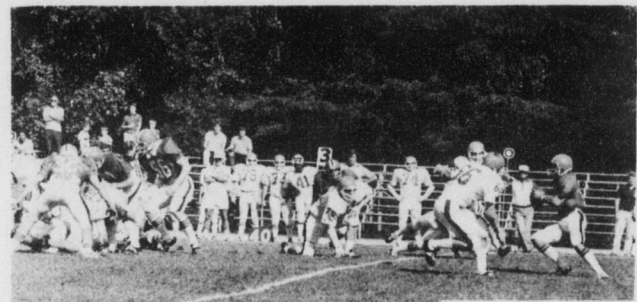


Photo by Fred King

Being a quarterback is not all glamour, especially when some big people want to stop you.

Fernandez as quarterback, who is described by his coach as "accurate and smart." Fernandez's accurate passing is complimented by several excellent receivers.

The Quaker defense, though inexperienced, has played well, except for last week's 22-2 defeat, which Coach Forbes attributed to the lack of exper-

ience to draw on "in regard to Towson's unfamiliar offense."

Overall, Forbes thinks this team is better than those of recent years, despite being frequently outmanned by bulkier opponents. If the Quakers avoid injuries, last year's 5-4 record can probably be surpassed.



Photo by Fred King

Dynamic forces clash in the struggle for receiving the ball.

**Don't forget, Nov. 10!**

## On your mark

What is filled with prizes, run by humans, created by a newspaper, and 10,000 meters long?

If you can't answer this riddle, you've yet to fill out an entry form for "Read on the Run," a 10,000 meter race sponsored by the Guilfordian and Stroh's Beer.

Set among the rolling hills and ofrested property in the Guilford College Community, "Read on the Run" promises to be one of the most exciting races ever to be staged in the Greensboro area. The race is scheduled for 10:00 a.m. Saturday, November 10, with sign-in beginning at 8:30 and continuing through 9:30.

The entry fee of \$3.00 entitles the participant to a free "Read on the Run" T-shirt, refreshments during and after the race,

and the chance to win a myriad number of prizes. Gift certificates and merchandise will be awarded to winners in each division, and the frisbees will be given away while they last to those who cross the finish line first.

The divisions will be the same for both men and women: 16 and under, 17-24, 25-30, 31-40, 41-50, and 51 and over. Any division with less than five entries will automatically be combined with the preceding division.

Entry forms are available now at the Information desk in Founders Hall on the Guilford College campus. The deadline for entries is November 6; a \$2.00 late entry fee will be assessed for entries received after this date.

## New technology for gymnasium

### "Phototype for solar installations"

By Paul Holcomb  
Staff Writer

The Ragan-Brown Fieldhouse now under construction on the Guilford Campus is being designed to accommodate an impressive array of conservation and solar energy devices.

The gyn will feature a unique combination of energy efficient and energy-harnessing equipment, according to Business Manager Jim Newlin.

There are four basic concepts incorporated into the design of the Physical Education Center. The first is an automatic light control system which derives maximum efficiency from the buildings skylights.

This device will dim or brighten the lights in accordance with the amount of sunlight penetrating the skylights. At present electrical rates, this system should pay for itself in four and one half to five years.

Five heat pumps will comprise the third major section in the solar heated system

The top of the present gymnasium will be fitted with solar collectors. These collectors will heat water up to 130°F, providing hot water for showers, stabilizing the pool's tempera-

ture near 80°F, and heating the building.

A six thousand gallon insulated, fiberglass storage tank buried underground is linked with these collectors to provide excess capacity for the system.

Working in conjunction with this portion of the system is a heat-reclaiming device known as sprayed coils. Basically, these coils extract excess heat for storage and redistribution from areas such as showers, lockerrooms, and dryers. This is a concept that is very new to the non-industrial sector.

Five heat pumps will comprise the third major section in the solar heated gym. These heat pumps will be coupled with the fourth portion of the system, which is called an earth heat sink.

Briefly, this heat sink will utilize ground under 30,000 sq. ft. of the gym floor for a long term heat storage device. Begin-

ning in early September, the collectors will be turned on and heat will be transferred to the sink. The sink will be heated to 100°F to insure adequate heat for 30 days of overcast weather

in midwinter.

This heat sink eliminates the need for a conventional back-up system. However, the showers will be equipped with an emergency booster to insure a constant water temperature.

The initial investment for this type of system is not much higher than that for a conventional one. At present fuel and electrical prices, the initial investment will be returned in six to eight years, with some sections producing a payout in considerably less time.

Additionally, the system contains few moving parts, so maintenance costs are expected to be low.

The integration of these four concepts into the design of one building makes this system unique. According to Mr. Newlin, "no system has all these features together."

The needs of the future insure a demand for solar technology, and the progressive design of the Physical Education Center should make it a prototype for solar installations in numerous buildings in the country.

Anyone interested in learning more about this system should attend the October 28 Energy Awareness meeting. Jim Newlin will discuss the design in detail, and an on-site tour is likely.