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The Class of '86

First row, left to right: Robert Thompson, Cliff McKeithan, Richard Neal, Robert Kline, Jr., Lee Beckham, Gene Harding, David Lakey, Tom Hawk, David Rich, Steve Grest, Scott Crockett, Mike Van Stone, Chris Trapp, John Dufek, Robert Tang, Scott Wigand, Todd Kallmyer, Bryan Andrews, Bill Toler; second row: Bill Childress, Harry Fuerhaupter, Andy Sharp, Scott Hanny, Jim Sherwood, Unknown, Bob Mattingly, Dirk Hall, Dale Schnarr, Bert Stone, Rob Bumb, Bill Bradford, Rich Krahling, Jim Pigford, Dan Smith, Gordon Hathaway, David Duffield, Eric Overholt, Andrew Spears; third row: Larry McIntyre, Scott Ross, Eric Christianson, John Thaler, Andrew Nunns, Dale Wedell, Bruce Carpenter, Duane Reinhold, Todd Duckworth, Steve Gunn, Todd Lozier, Jeff Reynolds, Karl Kleemeier, John Wolf, Chad Brown, Kirk Caraway, Eric Aldredge, Unknown, Chuck Zukor; fourth row: Grant Walmouth, Mark Thompson, Dave Bueler, Mike Septer, George Rogers, Stan Pittman, Kevin Wolfe, Tom Vorjohan, Tim Ayers, Greg Schiefelbein, Mike Engle, Bob Peacock, Martin Severance, Ken Bergman, Ken Ward, Jim Bartee, Jeff Redman, Scott Brady; fifth row: Bryan Gatewood, Doug Hanson, Brian Henry, Kirk Shirar, Scott Sabo, Tim Kropf, Andy Jeffers, Derrick Ogawa, Charles Hastings, Owen Strawn, Rodney Lauer, Unknown, Doug Sprunger, Doug Briles, Steve Zeglin, Unknown, David Evans; sixth row: Sean Maher, Gary Winzenread, Steve Davidson, Mike Lonnes, Brad Keiss, Todd Griffith, Brian Harvey, Randy Cape, Bob Wright, Larry Cramer, Brent Hudson, Bret Simmerman, Brad Lehman, Tim Shoemaker, Paul Pringle, Paul Drago, Tony Coopride, Doug Hackman; seventh row: Charles Smith, Barry Peterson, Mike Steele, Dave Zabel, Mike Smythe, Larry Epley, Jim Skinner, Mark Nordmeyer, Michael Gregory, Jon Nickell, Pat Wildemann, Unknown, Rob Myers, Unknown, Jim Bielefeld, Jr., Chris Graup, Ron Bowman, Mike Walsh, Chris Beckman, Dennis Day; eighth row: Bill Riggs, Bill Hollen, Jeff Moore, Lowell Anderson, Pete Hipplehauser,

Bill Suter, Phil Suter, Ken Riggelman, Ken Schnabec, Unknown, Larry Burns, John Christos, Brian Mast, Ron Webb, Mike Malast, Brian Zwiag, Scott McKnown, Rich Drake, Nate Schroer; ninth row: Duane Mowrey, Ron Neumeyer, Terry Olinger, Scott Blonigen, Jerry Ritchie, Duane Green, Steve Ghera, Mike Griesenbrock, Mark Brinegar, Roger Davidson, Kevin Stroud, Kevin Bleicher, Hung Ngo, Ron Palucki, Ken Parvin, Tim Kolb, Richard Payonck, Stan DeHoff, Dan Harrison, Unknown, Ron Linder; tenth row: Rich Correll, George Duyana, Scott Loftus, Darby Keeney, Rodney Earlywine, Brian Chaille, Mike Walden, Unknown, Unknown, Dave Fanning, John Ellis, Scott Klimek, Greg Hoffman, Paul Ledbetter, Tracy Houpt, James Short, Dave Doneen, Steve Rowe, Preston Robinson, Nicholas Jokay, Bruce Pesch, James Milne; eleventh row: Ed Guilford, Ken Rasche, Steve Harman, Scott Wright, Dick Weigel, John Guy, Dennis Worthington, Dwayne Ramey, Don Lincoln, Mark Crampton, Piero Madar, Kinh Le, James West; twelfth row: Dave Norman, Glenn Potts, Gabe Fleck, Larry Mattingly, Unknown, Nick Okruch, Dennis Koopman, John Byerny, Richard Root, Steve Stier, Gary Johnson, Mike Kvintus, Glen Van Alkemade, Cheow Leong, Unknown, Mike Rooksberry, Steve Rammelsberg, Andrew Bolda, Steve Patterson, Gary Reuland, John Rhoades; thirteenth row: Unknown, Andy Curosh, George Muntean, Kent Suiters, Marty Severance, Unknown, Todd Troutman, Mike Sullivan, Lon Petts, Michael John, Unknown, Doug Nunan, Mark Carter, Les Haman, John Vierow, Jim Kweeder, Craig Coder, Andy Wurtz, Brad Barkowski, Mark Coffman, Jeff Lambert; fourteenth row: Unknown, Duane Buening, Darrin Davidson, Larry Shope, James Scheid, Vern Vannestran, Phil Meiss, Steve Swanson, Jim Tausch, Brian Cavagnini, Chip Ray, Larry Greene, Bob Doti, Bob Schukai, Tim Meckstroth, Bob Nordyke, Dennis Wallen, Bob Tubbs, Mark Bailey, Tim Snyder, Unknown, Adam Dixon.

Rose to award five honorary degrees at commencement

Five men who have distinguished themselves in the fields of education, engineering, medicine, business and the military will receive honorary degrees May 24 during the 108th commencement program at Rose-Hulman Institute of Technology.

Receiving the Doctor of Engineering degree will be Jack Bokros, president of CarboMedics, Inc., Austin, Texas; Air Force General Robert Herres, commander in chief, U.S. Space Command, North American Aerospace Defense Command and commander, U.S. Air Force Space Command, Peterson, Colo.; Rose-Hulman alumnus Herbert McAninch, a retired associate

director of research, Borg-Warner Corp., Auburn, Ind.; and Burnell Roberts, chairman of the board and chief executive officer, The Mead Corp., Dayton, Ohio. Receiving the Doctor of Humane Letters degree will be Carl Riddle, principal at Terre Haute North Vigo High School.

Roberts will present the commencement address during the ceremony that begins at 11 a.m. at Shook Memorial Fieldhouse.

Bokros is a metallurgical engineer who founded a company that ultimately became CarboMedics, Inc., a firm that produces carbon components used in almost all of the

mechanical heart valves used today. The company also markets orthopedic and dental prosthetics that incorporate advanced biomaterials developed by the firm.

General Herres' military career includes numerous assignments in the command and control systems field at SAC and Air Force headquarters and as director for command, control and communication systems in the Organization of the Joint Chiefs of Staff. In 1984, he was named commander in chief of the North American Aerospace Defense Command and the Aerospace Defense Command. Last year, he was also assigned as the

first commander in chief of the U.S. Space Command.

McAninch is a 1934 graduate of Rose who had a distinguished career as an engineer for Borg-Warner and Link Belt companies. He served as vice president of engineering for Borg-Warner and contributed to the development of plants in South America, Australia and South Africa as a member of the corporation's international division.

Roberts heads one of the nation's largest forest products companies that produces and markets a broad range of printing and writing papers, paperboard, packaging and ship-

ping containers. The Mead Corporation is also a leader in electronic publishing and the electronic retrieval of legal, business, financial and general information.

Riddle has been recognized by state and national education organizations for his contributions and expertise as a secondary school principal. Last year, he was honored as the Outstanding Secondary Administrator for the State of Indiana and he was selected by the National Association of Secondary Principals as one of 60 education officials asked to participate in a study of the effective high school principal.

Opinion and Columns

EDITORIAL

I remember four years ago when I graduated from high school. I spoke at my graduation. Looking back now, I wish I could go back and do it all over again. I gave some useless speech which probably bored my fellow students and their parents to tears. It was an opportunity when I could have said so much, and I said so little. It isn't possible to go back in time, but maybe sometimes people do get a second chance.

As I sit here writing this, memories of the good times that I have shared with close friends are flashing through my mind. Sure, we're all standing on the brink of a new adventure and new challenges. Almost all graduation speakers will say that, but for now I'd like to remember the past. In the four years that I have been here at Rose I have made some of the best and strongest friendships I have ever had. It is said that adversity brings people closer together, and if that is true, then Rose-Hulman is certainly the place to do it. These past few weeks I have been watching the people around me and realizing just how much they have all come to mean to me.

I remember friends lending support, helping each other through the tough times and sharing in the good times. I remember parties where a group of us would try to break up a group of women who insisted on staying together. I remember all-nighters, working through until dawn with group members in order to finish a project. I remember intramural sports and pick-up games that allowed us to blow off steam, late night card games where the pizza and beverages always seemed to disappear too fast, the insanity of the freshmen-sophomore wars, and many other good times.

It's hard to believe that these times are over. I know that there are good times ahead and I'm looking forward to them, but it's a sad thing to say farewell.

What I need to say is thank you. Thank you to all my friends; students, faculty, and administrators alike. Thank you for helping to make these four of the best years of my life. Thank you for being my friends. Farewell my friends, and keep in touch.

— RCK —

Battalion Bulletin Board

For the third straight year since the Army began the Technological Enrichment Program (TEP), three seniors from the Army ROTC Program have been selected to attend graduate school at the Army's expense. This unique program offers selected Engineering and Science students the opportunity to choose from a wide range of graduate programs and to apply to any school of their choice. Winners are commissioned upon graduation and then spend the summer working at the ROTC Department where they graduated before beginning their graduate programs in the Fall.

As second lieutenants, they will begin earning approximately \$20,000 a year upon graduation from Rose and will continue to receive their full pay and allowances while

in graduate school. Additionally, the Army pays all graduate school expenses, including allowances for books and supplies. Upon completion of their graduate studies, these men will be assigned to various positions in the scientific and engineering community as researchers, developers and project officers for the Army's engineering, equipment and material systems.

This year's selectees are: Clarence L. Beckham III (EE), who has been accepted at Georgia Tech; Dirk A. Hall (Physics), Arizona State University; and Todd M. Loefer (Chem E), who has applied to Notre Dame.

Rose-Hulman now has a total of nine graduates in this highly competitive program, more than any other college or university in the nation.

Movie Review

'Jo Jo' is a go

by Gary Hall

Richard Pryor switches from his usual comic self in his latest film "Jo Jo Dancer, Your Life is Calling". Pryor plays Dancer, a man whose life flashes before his eyes as he lies in critical condition in a hospital.

Through a series of flashbacks, Dancer relives a childhood growing up in a bordello, losing his mother and grandmother and having to live with a father who doesn't care for him.

When Dancer tries to make something of his life, his wife leaves him. He ends up being hustled and used by various club owners and freeloaders.

Finally, Dancer discovers his hidden talent, "dirty" comedy. His new act rockets him to the top. Along the way, though, he gets involved with drugs and starts drinking heavily. He also loses a second and a third wife. For a man who has everything, Jo Jo Dancer is pretty miserable.

This is when he decides to end it all, by setting himself on fire. Painfully for him, the attempt fails and he is rushed to the hospital in critical condition. This incident brings us full circle

to the beginning of the movie.

Though the film claims that the events are fictional, one cannot help but notice the similarities between Dancer's life and Pryor's life, especially the part about being burned. At the end of the movie, Dancer/Pryor gives a small comedy routine about the demise of Jo Jo Dancer the junkie. Though it is funny, it brings up the point of drug abuse and its affects.

Overall, for both its message and content, "Jo Jo Dancer" earns a B+.

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Sports

Rose takes second in CAC tourney

by Steve Zeglin

The Engineer baseball team took second place in the CAC baseball action at the Spring Sports Festival at Rhodes College May 8 through May 10. The Engineers were 4-1 while Rhodes was 5-0. Rose completed their season with a 17-23 record, but more importantly, they won 12 out of their last 15.

Rose won their first game of the festival against Centre College 12-11 in eight innings. Bruce Fennimore hit the

game-winning RBI single to score Aaron Murray. Relief pitcher Andy Curosh pitched the final two scoreless innings to earn the victory and raise his record to 3-2.

In the second day of the tournament the Engineers pounded Fisk University 13-2, but lost a pitchers' duel in 11 innings to Rhodes College 2-1. Andy Curosh and Brett Cottrell hit two and three-run homers in the victory, respectively. In the Engineers' longest game of the season,

Bruce Cluskey went an amazing 10 $\frac{1}{2}$ innings giving up only seven hits, but was taken out after he tired and loaded the bases on three walks. Dennis Kelley came in and narrowly missed the strike zone on a full-count pitch to walk in the winning run for Rhodes.

On the final day Rose won two close games. They edged Sewanee 11-10 and Earlham College 2-1. Joe Witulski won the first game and Andy Burtner won the second.



Steve Mendoza parred the final hole in the rain to give Rose the golf title.

photo by Nick Jokay

Athletes honored at awards ceremony

On May 14, Rose athletes and coaches turned out to recognize the accomplishments of the winter and spring sports teams.

Rifle team awards were presented to Mike Rea for being the outstanding freshman on the team; J. Groom for most improved shooter; Don Boughton for co-captain; and Dirk Hall for co-captain and MVP.

Basketball awards went to Doug Underwood (free throw

percentage of 84.4); Dave Urbanek (most rebounds and co-MVP); James Yoakum (first year award); Jeff Rea (captain); Dave Plantz (captain); and Tim Kropf (co-MVP).

Wrestling awards were given to Jeff Stegman for being the best freshman wrestler and to Wes Davis who was named MVP and recognized for having the most takedowns.

Rich Corell and Brian Cavagnini were presented the Fox Burns Outstanding Senior award in recognition for their contributions to Rose athletics. Tim Kropf won the Samuel Hulbert award and Greg Hoffman was presented with the John Logan award. Receiving this year's Old Jock award was Major Roger Casale. The award is presented each year to the person showing continuous athletic support for Rose.

Golf victorious at CAC

by Steve Zeglin

The Big Bell all-sports trophy awarded to the top CAC school in the CAC Spring Sports Festival was won by Rose-Hulman for the second year in a row. The margin of victory was so small that Steve Mendoza had to par the last hole of the second round of golf in the pouring rain to give Rose the overall victory.

The golf team won the team championship by shooting 634 to Sewanee's 635 for two rounds of golf played May 9 and 10 at Rhodes College. The second round of golf was the last and deciding event in the overall points for the Big Bell all-sports trophy. Rose narrowly won by a

total score of 182.5 points to 180 for Rhodes College. A second place team finish in golf would have given Rhodes College the trophy.

Rose shot a 312 in the first round to lead Sewanee by six strokes, but Sewanee shot a 317 in the second round while Rose had a 322.

Rose golfers Steve Mendoza and Dennis Aldridge tied for second place in individual scores for the golf tournament. Steve shot a 75 in the first round and then an 80 in the second round, while Dennis shot a 79 and then a 76. Senior Ron Neumeyer shot a 78 and a 90 and Anthony Gullickson shot an 83 and 84 for Rose.

Netters have excellent season

by Mark Crowder

With four fine seniors and six of seven returning lettermen, Rose's netters began the season with high expectations. They fulfilled these by finishing the season at 14-7, having more wins than any other Rose tennis team.

The season finale was a strong third place finish in the CAC Spring Sports Festival. Rose battled Sewanee and Centre for first place on the last day of competition, only to come up short. Coach Chuck Lindner was pleased with his team's overall performance and pointed out that John Puckett and Chad Beesely, his top two players, will

be back next year.

The seniors who will be leaving are Mick Smythe, a consistent performer at number three singles, Steve Patterson and Barry Peterson, who had a mid-season injury but recovered to finish second in the CAC tourney. Another senior, David Norman, concluded his 10th season of playing tennis for Terre Haute schools. The leadership, experience, and talent of these players will be missed next year. Steve Patterson, who had the most individual wins for the season, received the Most Valuable Player Award.

CAC Tennis Results

No. 1 singles	John Puckett	3rd
No. 2 singles	Chad Beesely	3rd
No. 3 singles	Mick Smythe	3rd
No. 4 singles	Steve Patterson	3rd
No. 5 singles	Barry Peterson	2nd
No. 6 singles	David Norman	2nd
No. 1 doubles	Puckett/Beesely	2nd
No. 2 doubles	Smythe/Peterson	3rd
No. 3 doubles	Patterson/Norman	3rd

Track wins eighth CAC title

by Steve Ufheil

The Engineers' track team won its eighth straight CAC title at the Spring Sports Festival at Rhodes College in Memphis, Tenn., on May 10. The team standings were not even close as Rose-Hulman accumulated 213 points. The other Conference foes finished as follows: Rhodes (168.5), Sewanee (94), Centre (67.5), Earlham (36), and Fisk (10).

Individual winners for Rose included the 4x100 meter relay team of William Sears, Chris Cook, Brian Cavagnini and Ken

Pierce. The mile relay team of Todd Lozier, Cook, Cavagnini and Sears also finished in first place. Miles Fletcher won the conference championship in the high jump, as did Kurt Kelso in the 1500 meter run and Chris Trapp in the javelin. Brian Cavagnini was the only two-time winner for Rose, winning both the 200 and 400 meter runs.

At the awards ceremony on May 14, Coach Thompson was presented a plaque by the team in recognition for the hard work and dedication that he put into the team.

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Indy 500 Special

The Greatest Spectacle in Racing

by Steve Ufheil and Gary Hall
Saturday, May 10, dawned sunny and warm at the Indianapolis Motor Speedway. Rick Mears and Danny Sullivan, members of the very successful Penske racing team, had been going fast all week and kept it up in the morning practice runs. Each man turned a one-lap time at over 217 mph, an unofficial track record.

Once qualifications began, Dick Simon set a trend for the day by waving off his first qualifying attempt. Even though he had been averaging over 208 he felt it was too slow. Mario Andretti, up second, became the first man to qualify with a near record time of 212.300 mph.

Anticipation kept rising as Danny Sullivan took to the track later in the morning. After two warmup laps he began his official qualification attempt. When it was all over, he had shattered the old record by almost three miles per hour, setting the new mark at 215.382.

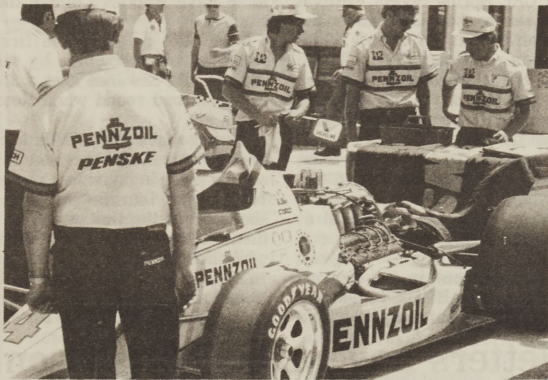
Only four cars had qualified in the first two hours when Rick Mears' car was pushed through inspection. Though there was concern among some that the hot

day was affecting track conditions Mears was confident in his car's setup. Minutes later he broke his teammate's four-lap record and won the pole at an amazing speed of 216.828. That speed gave him the pole position and won his team more than \$100,000.

During the afternoon the number of qualifiers rose to 27. There was one noticeable absence — A.J. Foyt. Foyt struggled all day but never found the speed. Before he could make his last attempt the USAC inspection team found a loose bolt in his car and wouldn't let him on the track.

Foyt did eventually make the lineup, earning the 24th spot with a speed of 213.212 mph. When all 33 spots had been filled, Foyt's mark was just over the average speed of 210.354 mph, which compares to last year's mark of 207.707.

All that is left now is the race itself. On May 25 the country will see 33 of the best drivers in 33 of the fastest cars trying to last over three hours of racing to be the first to complete 500 miles. It is truly the greatest spectacle in racing.



The Penske team's record car driven by Rick Mears

The new Gasoline Alley

by Gary Hall
"We'll miss them" is how Johnny Rutherford spoke of the old garages in Gasoline Alley during an interview on the first day of qualifications. As technology marches on, another landmark was replaced.

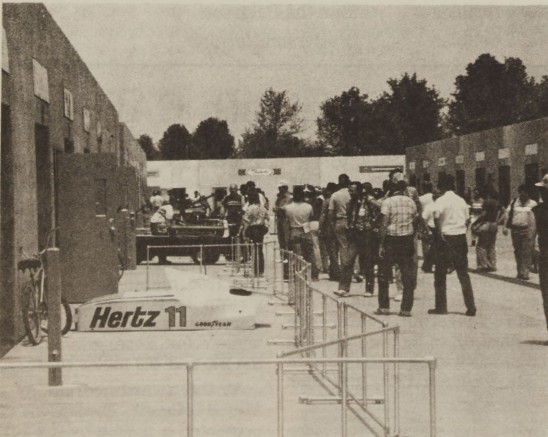
The old familiar garages have been replaced with a 200,000 square foot Gasoline Alley that can accommodate 96 cars. The new garage area consists of three double-row units of 32 spaces each and is surrounded on three sides by individual rooms for various accessory support companies.

Rutherford did admit that the new garages were nicer and roomier. Each of the new garages measures 20 feet by 25 feet, which allows the driver and crew 30 percent

more working space than did the old garages. The new garages are also safer, with concrete replacing the "fire-trap" wood structures of yesterday.

The new Gasoline Alley also has more room between the double-row units. The double-rows are separated by 50 foot driveways, with a 70 foot wide driveway connecting the garage area and the pits. All of this allows the crews more room to maneuver the cars around.

With only 67 cars registered for qualifications, counting backups, the new garage area seems less crowded this year than in years past. With 96 garage slots, many drivers were able to occupy more than one and several garages remained unused.



The new Gasoline Alley has much more room.



The infield crowd at the Indy 500 racetrack.

All photos by Gary Hall

Tentative starting lineup

Row 1		
Rick Mears	No. 4 March-Cosworth	216.828*
Danny Sullivan	No. 1 March-Cosworth	215.382
Michael Andretti	No. 18 March-Cosworth	214.522
Row 2		
Bobby Rahal	No. 3 March-Cosworth	213.550
Al Unser, Sr.	No. 11 Penske-Chevrolet	212.295
Kevin Cogan	No. 7 March-Cosworth	211.922
Row 3		
Tom Sneva	No. 33 March-Cosworth	211.878
Roberto Guerrero	No. 5 March-Cosworth	211.576
Al Unser, Jr.	No. 30 Lola-Cosworth	211.533
Row 4		
Ed Pimm	No. 66 March-Cosworth	210.874
Emerson Pitipaldi	No. 40 March-Cosworth	210.237
Johnny Rutherford	No. 21 March-Cosworth	210.220
Row 5		
Randy Lanier (R)	No. 12 March-Cosworth	209.964
Pancho Carter	No. 15 Lola-Cosworth	209.635
Roberto Moreno (R)	No. 9 Lola-Cosworth	209.469
Row 6		
Jacques Villeneuve (R)	No. 81 March-Cosworth	209.397
Danny Ongais	No. 25 March-Buick	209.158
Josele Garza	No. 55 March-Cosworth	208.939
Row 7		
Tony Bettenhausen	No. 16 March-Cosworth	208.933
Arie Luyendyk	No. 61 Lola-Cosworth	207.811
Dennis Firestone	No. 36 Lola-Cosworth	207.471
Row 8		
Geoff Brabham	No. 8 Lola-Cosworth	207.082
A.J. Foyt	No. 14 March-Cosworth	213.212
Raul Boesel	No. 22 Lola-Cosworth	211.202
Row 9		
Scott Brayton	No. 71 March-Buick	208.911
Phil Krueger (R)	No. 42 March-Cosworth	207.948
Chip Ganassi	No. 59 March-Cosworth	207.590
Row 10		
Jim Crawford	No. 31 March-Buick	208.911
Rich Vogler	No. 6 March-Cosworth	208.089
Johnny Parsons	No. 95 March-Cosworth	207.894
Row 11		
Gary Bettenhausen	No. 24 March-Cosworth	209.756
George Snyder	No. 44 March-Chevrolet	209.025
Mario Andretti	No. 2 Lola-Cosworth	212.300

*Mears set a new four-lap record with his average of 216.828.

Cosworth: The power of the Brickyard

by Steve Ufheil
The Cosworth name has been synonymous with Indy racing for the last decade. It first appeared in the record books in 1977 when it powered Tom Sneva's Norton Spirit McLaren to an unprecedented 200.535 mph to set the one-lap record. Since that time, this British-built engine has dominated the Brickyard, winning the poll position and setting higher and higher marks of speed.

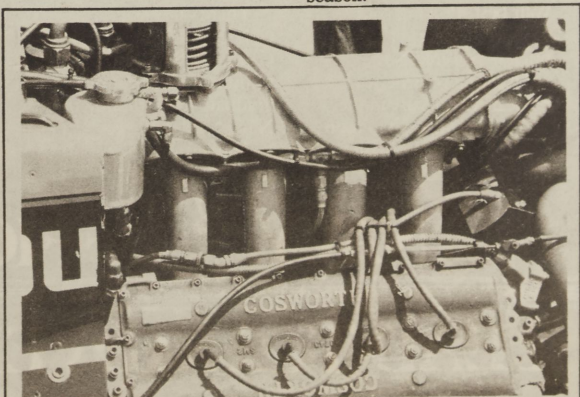
The Cosworth was modeled after the four-cylinder French Peugeot racing engine. It is comprised of eight cylinders with four valves per cylinder and a double overhead cam. The combustion chambers were designed with a tent roof, the spark plug being in the center to improve flame propagation. The version of the engine used at Indy is the Cosworth/Ford DFX V8. It is fuel-injected and turbo-charged. With the manifold pressure limited to 47 inches of mercury by the United States Auto Club (USAC), this 161-cubic inch V8 tops out at 11,000 rpms and produces around 730 horse-

power.

In response to the challenge of the Buick V6 turbo which took the poll last year at a record 212.583 mph, the designers of the Cosworth have developed a new short stroke version of the DFX which will be used by most of the teams in this year's race.

The days of the high per-

formance British engine, however, may be numbered. Chevrolet has designed a V8 engine specially for racing. New engines from Honda (a V8) and Renault (a V6) are being checked out as are the Buick V6 turbos. Ferrari has also announced that it will be producing either a V6 or a V8 for use next season.



The powerful Cosworth engine up close.

23245-887