

# **Thursday April 9**

9:00 am	Buggy Display and Design Competition Pre-sale of ride tickets	Gym Skibo Info Desk
11:00	am "Blizzard of Bucks" Registration	Grey Matter
4:30		Midway
6:00	om Jazz Choir	Tent
	AB Movie: Family Game	DH 2210
8:00	om "Blizzard of Bucks"	Tent
	Scotch 'n' Soda: " 'Denty Crisis'' "MacMuffin'' "Eve of the Trial''	Ballroom
	AB Movie: Japanese Cartoons	DH 2210
10:00 pm AB Movie: Gate of Hell		DH 2210
10:30	pm Fireworks (Friday if rain)	Tech Stadium
11:00 Midnig		Tent Midway
Milaring	Jill Wildway 010363	iviidway

# Friday April 10

am Swe	eepstakes Haces	Tech Street
Noon	Midway opens	Midway
12:30 pm	Beaver Creek Bluegrass Band	Tent
1:30 pm	Caricaturist	Midway
2:00 pm	Sam Simon (Magician)	Midway
3:00 pm	Michael Spiro	Tent
	Men's Lacrosse vs. Allegheny	IM Field
4:00 pm	Midway Judging	Midway
6:00 pm	T-Shirt competition and Display	Scotland Yard
	NPC Bodybuilding competition	Tent
8:00 pm	Scotch 'n' Soda: "'Denty Crisis" "MacMuffin"	Ballroom
0.00	"Eve of the Trial"	T
9:30 pm	AB Dance: Billy Price and The Keystone Rhythm Band	Tent
10:00 pm	Movies: "The Three Stooges Go Around the World in a Daze"	Wherret Room
	"LaCage Aux Folles"	
	"A Little Romance"	
Midnight	Midway closes	Midway

## Saturday April 11

8:00 am Swe	eepstakes Finals	Tech Street
Noon	Midway opens Alumni Buffet	Midway Scotland Yard
12:30 pm	Junior Tambritzans	Tent
1:00 pm	AIESEC Food Festival	The Cut
	Balloon Rides	The Cut
1:30 pm	Caricaturist	Midway
2:00 pm	Cahal Dunne (Irish and)	Tent
3:30 pm	Floe Reggae (Band)	Tent
6:00 pm	Campus Ministry Council Square Dance	Tent
	SDC Movie: Mad Max Beyond Thunderdome	DH 2210
8:00 pm	Scotch 'n' Soda: "'Denty Crisis" "MacMuffin" "Eve of the Trial"	Ballroom
	SDC Movie: Mad Max Beyond Thunderdome	DH 2210
9:00 pm	Midway closes	Midway
9:30 pm	Closing Ceremonies	Tent
10:00 pm	Movie: Raiders of the Lost Ark	Tent
	SDC Movie: Mad Max Beyond Thunderdome	DH 2210
Midnight	SDC Movie: Mad Max Beyond Thunderdome	DH 2210

#### Introduction

Every spring the students of Carnegie Mellon participate in a ritual which involves physical workouts at 2 am, sleepless nights among nuts and bolts, closing Schenley Park roads to weekend traffic, and shrouding the product of it all in secrecy. Even though it is only a part of Spring Carnival, the Buggy Sweepstakes is the sport unique in the world to Carnegie Mellon.

1987 marks the sixty-fifth year of the Buggy Sweepstakes, a sport created in 1920 when the Student Council decided that Carnegie Tech students should have a chance to blow off steam. The initial race took a buggy-driver-pusher combination on a course which not only included rolling but also a pit-stop where the right and left rear wheels had to be exchanged and also allowed the switching of pusher and driver. In 1928 the course was changed to more or less its present form and the races have continued uninterrupted except for three years during World War II.

In "freeroll" practices held weekend mornings since late February buggies have covered a total of more than 1200 miles in addition to the nightly "push practices" held from midnight on. The freerolls exist primarily to get the drivers used to the course they will travel at speeds as high as 30 miles per hour while hovering only inches above the pavement while the push practices are needed to train the crew of people who will push the buggies up the five hills found on the course. Buggy can be a demanding and expensive sport, taking its toll on the sleep and sanity of the people involved in it. The cost of some buggies is in the thousands of dollars. As a result, a winning buggy team is the rare combination of a fast buggy, a skilled driver, and a strong push team.



#### Chairman's Notes

This year I decided to enroll in a two semester course called Buggy. The course does not offer any credits, but requires about twenty semester hours a week. It is most popular as a spring course, but some students take it all year round, and many take the course during all four years of school (one is even reported to have taken the class for a full six years).

The course description was lengthened this year because of the new safety rules that were implemented. Along with the rest of the Sweepstakes Committee, I was required to enforce many new buggy rules and regulations. Requiring traffic blinkers at push practice was one of the more successful rules.

I also learned that a sequential rolling order *can* work, no two buggies look the same inside, and even fire trucks can run out of gas. But most of all, I have learned how to work with many different kinds of people, both as a friend and as the Sweepstakes Chairman. Thanks everyone, it has been great taking Buggy -101 with all of you.

I would like to especially thank the following people for their help and dedication during the past year:

Anne Witchner
Sanford Rivers, our starter
Rosalee Pingree, GSIA
Sandy Mawhinney, GSIA
CMU Campus Police
Radio Club
The Alumni Safety Committee
Skip Kuhn and the people from Chrysler





### Safety

Considering that some of the faster buggies rolling today can reach speeds of about 30 mph while entering the Chute (see map, pg. 16), driver safety is one of the more important aspects of the buggy races. In order for a driver to race a given buggy both the buggy and the driver must go through a series of safety tests designed to insure that the she knows and the buggy can handle the rules of the road.

In order for any one driver to race a buggy, she must have been "safetied" in that buggy. This involves proving her control of the buggy's braking systems (the "cape" test), having successfully passed another buggy ("pass" test), and complying with the safety equipment regulations.

This year marks the introduction of several new rules whose reception by the buggy organizations has been luke-warm. Making sure the different organizations comply with the safety requirements is the responsibility of the Steve Ng, the Sweepstakes Safety Chairman.

Outlined below are a few of this year's new rules:

Braking: In addition to the normal "cape" test, there will also be a reverse brake test in which the buggy will be pulled backwards while its brakes are on. This is to insure braking control of a buggy during a spin out.

**Pushbar:** The dropping push bar is no longer allowed. The pushbar must be confined within the perimeter of the buggy body.

**Trucks:** In responses to the chemical fire inside a truck laste year, all trucks must have curtain openings. Also, no flammable chemicals or open flames are allowed.

Right: Safety Chairman Steve Ng (Sting)
Opposite: Sweepstakes Chairman Shawn Stufft and Assistant Chairman Trish DiMarco.

Windscreens: The windscreen of a buggy must be made of the plastic Lexan, and it must be clear for night prectices. Howver, tinted or mirrored winsscreens are allowed during freerolls and the Sweepstakes races.

In buggies with an interior wheel a second Lexan screen must separate the driver from the wheel to protect her from any flying debris.

**Roll cage:** The shell of a buggy must be able to withstand a force of 500 pounds from the top or the sides.

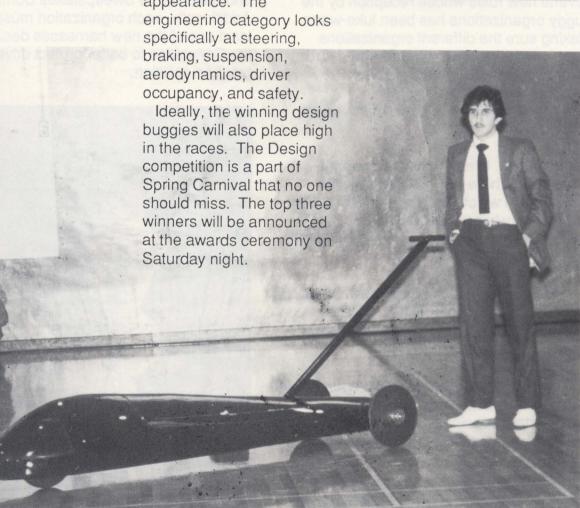
Driver protection: The driver must wear a hockey type helmet which has been endorsed by the Sweepstakes Committee. Additionally, each organization must use at least one of the new harnesses designed by the Committee to better protect drivers in a head on collision.



# **Design Competition**

Carnival weekend starts out on Thursday with the Buggy Design competition. A major change has taken place in the Design Competition this year to improve the quality of the event. Not only will the "design" buggy from each organization be on display in the main gym, but so will all of the buggies that will be racing in the following two days. It will be an excellent opportunity for the public to view all of the buggies at one time.

In the Design Competition each organization is given the opportunity to present its design buggy to a panel of judges composed of CMU professors. Points are awarded to each buggy for its engineering concepts and functionality, overall design, overall craftsmanship, and appearance. The engineering category looks specifically at steering,



#### **Freerolls**

Its 6 am on a weekend morning. The fog hasn't burned off yet, and most buildings on campus are nothing more than dim outlines. It smells like spring outside, but the cold biting at your face is telling you a different story. That cold will have penetrated deep into your bones by the time you go back inside again.

That's what most buggy diehards have faced every Saturday and Sunday morning since the last weekend in February. Only between 6 and 9 am on weekends is the crucial "freeroll" portion of the buggy course available for practice...and the organizations use every minute of that time.

It takes a multitude of people to make a freeroll run.
Each of the eighteen organizations is led by one or more buggy chairmen responsible for the overall effort. For them, weekend sleep becomes a fond memory, nothing more.

The chairmen, along with a core of trusted lieutenants, begin escorting the buggies out to the course just past 4 am, passing the last of the party diehards straggling home. At 4:30 am drop tests begin and every five minutes a new organization has the brakes of its buggies tested...just to be safe.

The sweepers are the next to arrive around 5:00 am. These unfortunates, usually the peons in each organiza-

tion, are assigned to sweep leaves and dirt from the roads. At about this time the buggy chairmen start walking the course with their drivers, showing them the precise "lines" to take. Each organization follows a slightly different, but precise, route around the course. Seeking every edge they can get, the buggy chairmen carefully plot these "lines."



Soon the saddling up of drivers begins. In a process not unlike trying to put 20 pounds of feed in a 10 pound bag, drivers are squeezed into their individual buggies. These most petite of campus females have almost no freedom of movement, save that needed to steer or apply the brakes.

By now, the course is almost ready. Flaggers, who are almost as unfortunate as the sweepers, are standing at the ready in their orange vests, repelling all nonbuggy vehicles from the course.

As each organization rolls its buggies in turn, a whole scenario unfolds. Once the final buggy begins its downward decent into the "freeroll," the buggy chairman hops in to a car to follow the buggies down the course, monitoring their progress.

A host of others people are also keeping their eyes on the buggies. From the top of Flagstaff Hill to the statue pedestal in the middle of Schenley Drive, people are clocking buggies. Not only do organizations time their own buggies, but those of their competitors as well. In Buggy, every edge and bit of information matters.

After the freeroll, the buggies fall under the unfortunate jurisdiction of the law of gravity. In order for that buggy to freeroll down the hill again it has to be brought up the infamously named "back hills" by a team of three pushers.

Despite the hardships involved, freerolls are an essential part of buggy. In fact, they embody the essence of buggy: lots of hard work by a small and dedicated group aimed towards a championship that will make it all worthwhile.

#### Mechanic

mechanic - (ma-kan-ik)

- a worker skilled in using tools or making, operating, & repairing machines.
- 2. a low, vulgar fellow.



Mechanics are the life blood of the Buggy teams. Many people come out to races and "oohh & aahh" over the handiwork of these individuals. However, what you see on race day is merely a culmination of nearly an entire year's successes and failures.

A mechanics job is not a glamorous one, but nothing could be more rewarding. Their principal responsibilities are the building and maintaining of the buggies.

This includes everything from the modifications for new safety rules to the final preparations in the truck on race day. Mechanics duties also include flagging, timing, and other menial tasks that need to be done.

Mechanics are generally not thrust into the spotlight. There is a reason for this. Most organizations keep a blanket of security (or security blanket) over the mechanisms of their buggies. Since any small

advantage could possibly translate into better performance, the mechanics tend to be tight-lipped about any specifications regarding their buggies.

So who would want to become one of these crazy no-names? They are mostly engineers who have caught the Buggy fever but can't push and can't drive. And once that fascination sets in, there is no turning back.





#### 1986 Sweepstakes Results

#### Design

- 1. Yamabachi Sigma Nu
- 2. Rapier Theta Xi
- 3. Legend Pi Lamba Phi

#### Women's Races

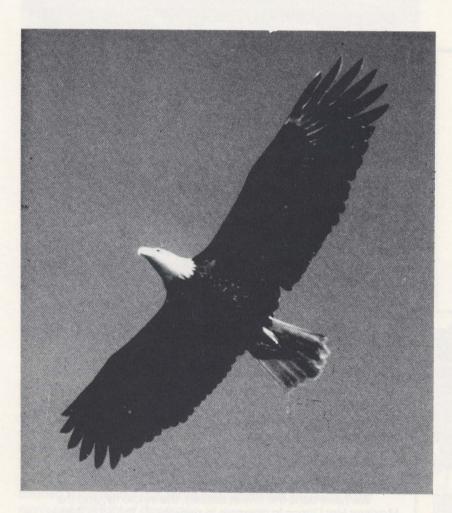
1. Spirit **A** 2:38:94 2. PiKA **A** 2:41:19 3. CIA **A** 2:41:48

# Men's Races

1.	PIKA A	2:08:67
2.	Beta A	2:09:16
3.	CIAA	2:10:42
4.	Spirit A	2:12:11
5.	Theta Xi A	2:13:27
6.	PiKA C	2:14:09
7.	PiKA B	2:16:59
8.	Beta B	2:16:66
9.	Beta C	2:19:15
10.	SNA	spun ou

"The strong program we have established will make us a force to be watched in the future!"

# **AFROTC**



AFROTC is a group of students enrolled in the Air Force Reserve Officer Training Corps at CMU. 1987 marks the first year our organization participates in Sweepstakes. We are very excited by our program.

We have been working furiously to get our buggy program off the ground. Our corps buggy freaks are working hard to make our program fun and exciting!

Chairman: Roger Rosner

Buggies: Eagle, 1987

Drivers: Pete Zapf, '90

Pushers:

Men: Rich Nave

Jeff Weed Bill Kerwin Joe Hirsch Chris Dakes Dale Kunz Kent Radek Riz Dagli Stephen Park

Women: Joanne Butman

Beth Petrick Becky Brockway Maria Buckingham

This year will be a year of learning and building for our young organization. We have been sweeping and flagging all year - even before our buggy could be rolled. The strong program we have established will make us a force to be watched in the future! Look for us!

# $AT\Omega$

Chairman: Tim Hoyle

Buggies: Gander, 1973

Rebel Yell, 1987

Drivers: Lorrin Vessella, '88

Jackie Fischer, '88

Pushers:

Men: Bob "Squid" Bowser, '87

Chris "Kayto" Chen, '87
Ken "Franco" Harris, '87
Glenn "Puller" Wohl, '87
Rob "Willie" Mays, '87
Gary "Opus" Como, '87
Jay "Thundercat" Angelo, '87
Frank "Manster" Meehan, '88
Tony "C.A." Bernard, '87
Jerry "Running Der" Bosch, '89
Jim "Punmkinhead" Camp, '89
Mike "Terminator" Bloom, '89
Tom "Mercury" Denver, '90
Brian "Biglou" Lucotch, '90
Terry "Booger" Graham
Kent "Nabisco" Hess

Women: Sue Shaghalian, '87

Janet West, '87 Jackie Fischer, '88 Diane Johnson, '88 Diane Watson, '88



The past fifteen years have been reflected in leaps and bounds in medical technology - unfortunately, one devasting breakthrough was the development of a fool-proof cure for "buggy-fever" at "the house on the corner." Luckily a new mutant strain of the fever has surfaced and is running rampant through the House - sending mechanics to distant lands in search of round wheels, pushers to the geriatric rehabilitation center, and drivers to the Larry 'Bud' Melman driver's training school, in hopes of once again taking the cake (and eating it) on raceday.

We have done the sweet sixteen, the velcro fly, and the Mexican Hat Dance in attempts to resuscitate the  $AT\Omega$  Buggy Program from the clutches of the evil Dr. Matt Feldman (exbuggy chairman), currently being sued for breach of contract, malpractice, and gross negligence associated with his rein.

Through stellar jumps in technology, we have eliminated the need for our 'free-roll' pusher-once strategically located near Phipps Conservatory. This year man and machine will strive to reach new levels of synchronicity in Sweepstakes 1987. With the 'Space Kids' rallying behind us, we will fullfill our destiny that - win or lose, we booze.

#### ".. the brothers at Beta Theta Pi are anxiously awaiting the chance to capture the buggy title."



After posting a house record time of 2:09.16 in last year's race, the brothers at Beta Theta Pi are anxiously awaiting the chance to capture the buggy title. With 13 of 15 pushers returning and the fastest crop of freshman pushers seen in 4 years, our push team will be stronger than ever under the guidance of push coach Ed Gallager.

One of our strongest points this year will be our crew of drivers. Returning veteran Libby Barna may be the finest driver on the course, while our two newcomers Amy Kehoe and Lynne Domeck have shown us that they have what it takes to be winners.

For the first time in many years, *Vixen*, our first three wheeler, will not be returning to competition this year, a victim of the new safety standards.

Some may take notice that our buggies are no longer the familiar color of green. This is because this is a very special year for the Beta buggy effort. Buggy and Beta has been reborn and it's time for a new look.

After last year's women's push team set a course record before being unceremoneously disqualified, we have decided to give it another try this year with a team made up of women's basketball players.

We sincerely feel that we will have more than one buggy capable of winning the sweepstakes title. *Nike* returns to better it's house record and *Xavier's Revenge* has come to show all that this year is The Year of the Dragon.

# ВӨП

Chairmen: Paul Browning, '89

Roy Guy, '89

Buggles: Xavier's Revenge, 1987

Nike, 1985 Challenger, 1986

Drivers: Libby Barna, '87

Lynne Domeck, '90 Terri Conaway, '88

**Pushers:** 

Men: Ed Gallager, '87

Mike LaValle, '87 Bill Burch, '90 Mike Hensel, '87 Mike Behling, '87 Tim Kelly, '88 Chris Trumble, '90 Brian Kirkendall, '90 Sean McGinn, '88 Roy Teresky, '87 Leo Cadden, '88 Mike Collvei, '88 Rich Hoyland, '87 Jim Slater, '87 Ron Orie, '87 Rob Arthur, '89 Rob Keller, '90 Jerry Mancini, '87

Chris Galvin, '90 Dave Skinner, '90 U.B. Crimmins, '90

Mike Beresford, '90

Jeff Caringola, '90

Support: Jeff Reynolds, '90

Doug Sargent, '89



"Hard work and dedication have been CIA's trademarks."

# CIA

Chairmen: Michael Swamp

Paul Oppedal

Buggles: Stealth, 1986

Black Magic, 1976 Spectre, 1984 Synergy, 1973

Drivers: Leslie Frank, '87

Cathy Lin, '88 Cheryl Cullers, '89 Ruth Delano, '90

Pushers:

Men: Eric Baldeschwieler, '87

Eric Bittner, '88 Arnold Blinn, '87 Jeff Cardille, '88 Bob Casey, '87 Scott Cullen, '90 Gino Cosentino, '87 Bob Dill '87

Bob Dill, '87 Mike Emmerth, '88 Mike Goddard, '88 Mike Grzywinski, '87

Women: Shelia Bomberger, '89

Judy Burig, '90 Stephanie Claudy, '87 Stephanie Janczak,88 Ellen Koh, '90

Ellen Koh, '90 Lesile Moy, '88 Carmen Mulder, '89 Roseanna Neupauer,89 Rona Rubenstein, '88 Debbie St. Pierre, '88 Val Sooky, '87 Andrea Soriano, '89 Linda Warren, '88 Greg Harting, '88 Glenn Mai, '87 Ed Miller, '89 Jim Murdoch, '88 Ed Pogozelski, '88 Colin Rafferty, '87 Blynn Shideler, '87 Jazz Singh, '88 Tim Sullivan, '87 Eric Thompson '89 Mark Trichtinger, '87 Mark Vitunic, '89



Last year was CIA's best year ever. We broke every record we had; men's, women's, and alumni. This year we will do it again.

With many strong veterans and fresh new talent, both men's and women's push teams will again be highly competitive. The mechanics have been working long and hard. The results will show on race day.

Hard work and dedication have been CIA's trademarks. Since our start in 1970, we have grown from an handful of people to nearly a hundred. Constant refinements have made our buggies faster than ever. This year is no exception.

Special thanks to all the officers, pushers, drivers, and mechanics who have made this year one of the most enjoyable ever.

#### "Dare to defy that. Integrity on wheels is the name of the game."

# $\Delta T \Delta$

"I shall not cause harm to any vehicle or the personal contents thereof, nor through inaction let that vehicle or the personal contents thereof come to harm."

From any *Crisis* comes *Suspicion* and, lo Delta Tau Delta aims to please.

From the fires of wisdom we wrought a woodie.

Dare to defy that. Integrity on wheels is the name of the game.



The life of a buggy man is always intense.

Chairmen: Greg Eoyang

Adam James Hird

Buggles: Crisis, 1985

Suspicion, 1987

Drivers: Teri Rueb, '90

Lori Brassaw, '88

Pushers:

Men: Brian McDonald - captain

Jon Kaplan
Dave Salak
Liem Vu
John Bush
Bill Barnes
Brian Cluggish
Chris Pace
Rob Coury
Spencer Barrett
Chris Curvey
Greg Eoyang

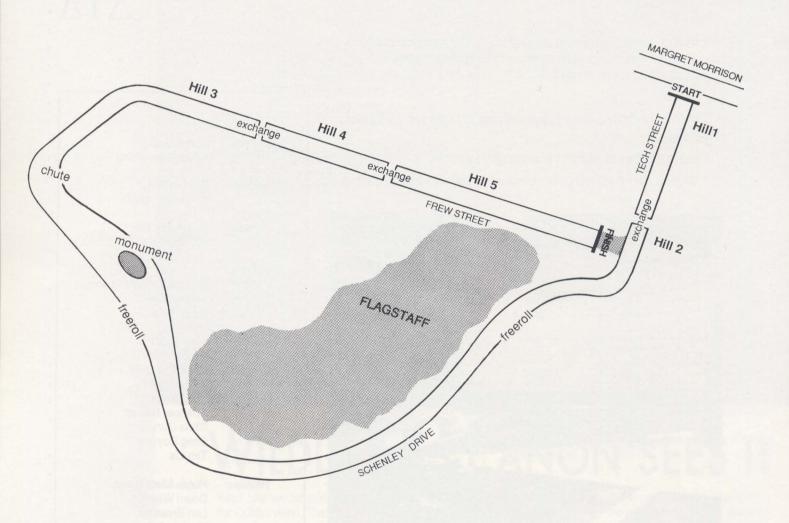
Women: Robin Mechlowitz

Tim Lis

Dawn Wandell Lori Brassaw Virginia Seitz Bonni Jacobson Mona Jantzi

Support: Brian Albrecht

Matt Grund Ben Kuo Jon Kaplan Liem Vu



# Heat Schedule

#### Men:

1. PIONEERS A 2. KDR B 3. THETA XI D	1. AFROTC <b>A</b> 2. SDC <b>D</b> 3. CIA <b>D</b>	2. KDR A	Heat 4  1. SDC C  2. KS B  3. CIA B
1. SPIRIT B 2. SN D 3. DTD B	Heat 6  1. SAE B  2. PIKA D  3. THETA XI B	2. SN <b>B</b>	Heat 8  1. SPIRIT C  2. PHI KAP C  3. BETA B
1. FRINGE B 2. PIKA C 3. SDC B	1. ATO A 2. PHI KAP B 3. THETA XI A	2. PILAMB	Heat 11  SPIRIT B  SAE C  SN C
1. DTD A 2. PIKA B 3. KS A	1. SPIRIT D 2. CIA A 3. SDC A	2. PILAM A	Heat 15  I. SN A  2. FRINGE A  3. THETA XI C
1. SAE A 2. PIKA A 3. BETA C		Note: Heat 10A is a spec Upsilon's two-wheeled bu simultaneously. This is du they present to other bug	ggies are being raced le to the potential danger
Women:			
1. SPIRIT C 2. FRINGE C		2. FRINGE B 2	Heat 4 . DTD A 2. PIONEERS A 3. CIA B
1. SPIRIT A 2. PILAM A 3. SDC B		1. SDC <b>A</b> 1 2. BETA <b>A</b> 2	Heat 8 . SN B 2. PIKA A 3. ATO A

# "Anyone can build a four-wheeled buggy and win, so why should we bother?"



Chairman: D

Dino Chiesa

**Buggles:** 

Biakar, 1987

Horned Screamer, 1985

**Drivers:** 

Dave Smith, '90

Phil Ebbert, '87

Cheryl Howard, '88

Pushers:

Men:

Joe Kuefler, '87 Pat McMullen, '87 Dave Denhard, '88 Pete Hill, '88 Pat Garrett, '88 Jim Kohler, '88 Dino Chiesa, '88 Rich Valera, '88 Evan McDonnell, '88 Scott Bale, '89 Kris Tomasson, '89 Tom Bonvissuto, '87 Geoff Wilson, '90 John Bender '90 Jon Uman, '90 Greg Phillips, '88

Dave Mannheimer, '88 Dave Chamberlin, '89 Mike Barrows, '90 Chris Young, '90

Support:

Phil Ebbert - Mechanic Matt Nolan - Mechanic Evan McDonnell Mark Allen - Mechanic With 1987 comes a new energy and interest in buggy at Delta Upsilon. We make that extra effort and take that extra year to bring out innovation in Sweepstakes. Anyone can build a four-wheeled buggy and win, so why should we bother? DU's Biakar and Horned Screamer, the only two-wheeled entrants this year, are without doubt the biggest buggies in Sweepstakes today. Biakar and Screamer (sometimes called the "Tacoma-Narrows" of buggy) break the conventional attitude that threatens to suffocate Sweepstakes and the American way itself. Further, newly developed and as yet untried technologies and a push team led by Hill 1 pusher brother Dick Cyert, assure that this year's sweepstakes will hold many surprises for you as well as us.

Catch sweepstakes and watch Delta Upsilon's buggy program, unchecked by the strict new regulations, roll on and over and into the competition.



".. realize that taking something seriously and having fun are not mutually exclusive."

fringe (frinj), n. 1. something regarded as a part of something else without being fully typical of, or essential to it.

Fringe is something that is part of that something else we call Buggy which, if you think about it, is a part of that something else we call Carnival which is part of Carnegie Mellon which is a part of higher education which is a part of life. The point is that none of these is fully typical of, or essential to the next.

We here at Fringe would just like to place Sweepstakes in its proper perspective for you. Fringe is not typical of, or essential to Buggy and neither are you. Sweepstakes does not live or die on the participation of any one organization. Sweepstakes is, was, and always will be the celebrated product of the combined spirit and dedication of all its participants — from the Pittsburgh community to the campus community to the administration and the student organizations from greek to independent.

We may not be your typical Buggy team (who else spends less than \$100 on a buggy that stops in the chute!) but we do realize that taking something seriously and having fun are not mutually exclusive. To paraphrase Woody Allen, the patron saint of Fringe, we do not want to attain immortality through our buggy design, we want to attain immortality by not dying.

# F.R.I.N.G.E

Chairmen: Marc Schindewolf

Steven Applebaum

**Drivers:** Andrea Mastradi

> Glynnis Patterson Liz Buckman Sarita Siugh

Pushers:

Men: Ladd McGuffy

Dave Corcoran John Zarsky Dave Zarsky Brian Roth Andy Lee Hank Altman

Al DeSautis **Brettt Schriver** Dennis Cohen

Gizeg Knoop

Women: Lisa Boyles

> Pat Fall Ann Kim Lynn Truski Mary Aujian Charlene Betz

Anne-Marie Lubencau

Marc Schindewolf Support:

> Roland DeFilippi Dave Henderson Dave Arai Dan Nichols Steven Appelbaum

Eric Hansen Marc Hegarty Rip Harris Tom Trampel Larry Back Tom Chmielenski

Jim Dale Joon Park Jeff Wyant Dan Blander

Cynthia Massagli Michele Katz Tomoko Harada Jeu Swee Audrey Liu Susan Murray

Buggy Book '87-19

# "And just remember - it's never as good as the first time."

# $K\Delta P$

Renaissance - rebirth or revival

Phoenix - a giant bird, risen from the ashes

Chairmen:

Scott Spriggs

Marc Phillips

**Buggies:** 

Renaissance, '87

Phoenix, '87 Phantom, '86

Drivers:

Brenda Raich, '90 Laura Lemay, '89

Mike Hoff, '87

Pushers:

Men:

Brett Bosley, '90 Brian Roesslar, '88

Anton Ogno, '89 Dan Dunbrack, '87 Stu Vernon, '88 Jim Kurien, '89 Dan Galvin, '90

John Frost, '88 Marc Phillips, '88 Darin Mar, '87 Doug Armstrong, '90

Mike Hayes, '89

Support: T

Ty Corbett, '87 Doug Armstrong, '90 Erik Skorpen, '90 Barry Simon, '89

Harvey Shaw, '88 John YaYa, '87



These two buggies are represent a new beginning for Kappa Delta Rho. Last year's entry, *Phantom* (in actuality a thinly disguised 1969 Pontiac GTO with a styrofoam push bar) was never seen and left many with long faces, broken hearts, and a hangover the size of Ocilla, Georgia. This year, with a renewed vigor, we set forth to establish ourselves amongst the buggy elite. Employing the services of William "the Refrigerator" Perry as our 'A' driver, we hope to break into the top ten and set forth a solid tradition for future KDR buggy fanatics. I would like to thank my good buddy Paul DiMarco for all his help this year. And just remember - it's never as good as the first time.

"..we feel confident that it's only a matter of time before you see Kappa Sig racing on finals day."





Chairmen: Tony Abenante Craig Holbrook

Buggles: Electric Banana

ATF, 1981

Drivers: Funky Dakster, '89

Cara Hughes, '87 Ruth Matsumura, '87 Halley Rosenblatt, '89

Support: Pete Kundel, '87

Joe Senior, '87

This year's buggy program is fully underway and there exists a feeling of anticipation as a result of our finish last year. 1986 Sweepstakes for Kappa Sig saw our buggy, The Lonely Guy, break our house record with a time of 2:20.21, good for an eleventh place finish. With this result and some improvement upon our race day procedures, we feel confident that it's only a matter of time before you see Kappa Sig racing on finals day. Last year also saw the debut of our newest buggy, Babble, which finished strongly, but due to the new safety requirements may never see the light of day again.

Outside of this, our push teams look strong and the aura of excitement is slowly beginning to fill the halls of the house. So, as always, Kappa Sig will be the house having the best time, and may even surprise a few people when all is said and done.



"A return to proven techniques and a focus on detail . . . no more rolling hams, broken washing machines, or threewheeled soap bars this year."

# ΦΚΘ

Chairman: Wes Doonan

Buggies: Silhouette, 1984

Shadow, 1971 Duke, 1987

Drivers: Karen Berkebile

Meredith Bene Paula Morini Rachel Kozak

Pushers:

Men: Kenny Bates, '90

Steve Banko, '90 Dave Bazel, '87 Carl Bell, '88 Donbo Dennis, '89 Jeff Diehl, '89 Dave Dillon, '89 Matt Fortnow, '87 Pete Gaertner, '90 Brad Hathaway, '90 Dave Hersh, '89 Eric Jacobs, '88 Tom Jennings, '90 Chris Karle, '89 Steve Kravchin, '88 Gary Krummert, '87 Adam Lashner, '90 Shaun Mangan, '87 Al Margarella, '88 Matt Murphy, '90 Scott Morris, '87 Vincent Rago, '87 Rob Schlackman, '88 Brad Sachar, '89 Alex Somogyi, '88 Jay Stevens, '89 John Will, '88 B. J. Rottschaefer, '88

Crew: Al Polaski, '88

Dave Howe, '88 Andy Barton, '87 Guido Capolino, '88 Tim Bauder, '87 Christopher Lewis III, '89 MEDIC! POOR HOTDOGGING.
HE KNEW THE
RISKS.

**Buggy** - an intriguing blend of art and science, form and function; an all-consuming passion for some, a pain in the neck for others; as unique as you are likely to find.

As an organization that has been recognized as a dark-horse contender for four years running, we feel that with a little extra enthusiasm and dedication we can finally 'push' our way into the top ten. A return to proven techniques and a focus on detail are the watch words of this year's effort at PhiKap. No more rolling hams, broken washing machines, or three-wheeled soap bars this year.

In an age of competitors with exhaustive training programs on "whatever -it-takes" budgets, however, we try to keep a little perspective. Destroy the house record, build up our young push teams, and maybe make a showing in the top ten (six?); our real goal of course is just to show everyone who is having the most fun.

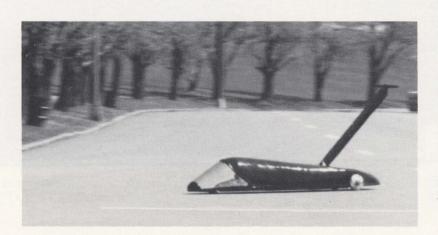
In closing, I especially like to thank Andy C., Ed, Dale, Dr. Burns, Alex, Jeff B., Bill, Garry, and of course Doug and Gail. Your support and advice is without price. See you all on race day - even if we are ahead of you!

# ПКА



PiKA's buggy program in the past has been characterized by many different, integrated factors: strong push teams, experienced drivers, dedicated Foads, and many calculated risks. This has proven to be a winning combination; this year will be no different. We will be out there competing with all the other organizations, putting forth our best effort. As usual, PiKA will not have the most attractive buggies or any of the fun and exciting raceday rituals, but we will have some of the best buggies in Sweepstakes.

But hey, win or lose . . .



Chairmen: Mark Sladic, '87 John Barrett, '87

Buggles: King Solomon, '86

Breathless, '85 Godzilla, '83 Bullet, '83

Drivers: Sarah Fay, '88

Audrey Greenfield, '87 Carol Evans, '87 Sarah Alexander, '89

**Pushers:** 

Men: Joe Mancuso, '88

Jim Strelow, '87 Jeff Pinard, '88 Dave Bart, '87 Kai Mebust, '89 Mike Ross, '88 Dave Weiss, '89 Reid Sclafani, '87 Mike Smith, '89 Roger O'Conner, '89 Mark Benish, '88 Mark D'Costa, '90 Mike Luterman, '87 Domenic lanno, '90 Glen Detillo, '90 Devon Karol, '90 Domenic Coletti, '87

Women: Amy Stempel, '88

Cathi Breza, '87 Michele Woods, '87 Sohee Chung, '89 Gaitri Pathak, '87 Chris Ceva, '87 Grace Shields, '88

Evan Kaliner, '88

# "We've lost everything but our sense of humor!"

# ΠΛΦ

Chairmen:

Jeff Melton

**Rob Moses** 

**Buggies:** 

Falcon, 1982

Legend, 1983

Miss Budweiser, 1984

Drivers:

April Touw, '87

Nadine Silberberg, '88

Sue Tabor, '87 Kimberly Orsborn, '90 Gerald R. Malan, '89

Pushers:

Men:

G. Christopher Rentko, '87

Robert Button, '87 Kevin Madzia, '87

Ed "Dewey" DeMaar, '88 Bill Baxter, '87

Sung W. Lee, '87 Andrew Bros, '89

Women: April Touw, '87

Holly S. Graham, '89 Lisa Esposto, '87 Carla Slebodnick, '90 Jennifer Even, '87

Support:

Ed "Dewey" DeMaar, '88

Jim Lui, '89

Andrew McClure, '90 Gary Yacura, '90

Robert N. Moses, Jr., '88 Glenn Hoogerwerf, '90

Chris Ruiz, '90 Sunny Patel, '90

Michael Kostolansky, '87 Mark Schmick, 89 Bill O'Donnell, '89 Todd Bross, '88

Lisa Mountcastle, '89 Sharon Weingarten, '88

Erina Kim, '89 Becky Finkel, '88 Maria Cosenza, '88

Matt Corliss, '87

Carl Ray, '89 Michael Kato, '90 Chirs Dudas, '87



"Our success stems from the cooperation, open mindedness, and the special brotherhood that we all share; we're all people."

# **PIONEERS**

We're not merely a buggy organization but we also have an excellent booth, sports teams, parties, and most importantly, incredible members! Everyone in our organization shares the joy of putting things together. Our success stems from the cooperation, open mindedness, and the special brotherhood that we all share; we're all people.

Pioneers are honored to be able to compete in Sweepstakes '87 and want to make clear that we are not here merely to produce a buggy, but to compete with the best.

We would like to see the true spirit of competition prevail, and our deepest wishes of success for all organizations in sweepstakes. Special thanks to President Cyert, Student Senate, Spirit, Shawn & Trish.



#### The Pioneers are:

Bill Alexander Karl Barnhart John Beranek John Bleiuas Marc Choe Bill Corcoran Louis Csak Pam Dalley Joe Ferugia Carlos Franco Dave George Ken Gober Tom Glatz James Grobe Nathan Hurding Colleen Harrison **Chrissy Hines** Mike Jung Son Levy Damon Lipparelli Jill Luria Gary Marchiona Paul Mayer Tom Miller Pam Mott Amanda Mujica Joan Park Josic Parr John Riccardi Mike Rovere Ira Rubien Daniel Stodolsky Jim Takami Kevin Truffa Paul van Buskirk William Yelle ... and Pinnacle.

".. be on the lookout for the traditional Limo which, rolling it's own window, will try to break the three minute barrier."

# ΣAE

Chairman: Vernon Hopkins

Buggies: Hustler, 1980

Intrepid, 1973

Limo

Drivers: Janine Bodio, '90

Lou Fuertes, '87 Kathy Murtaugh, '88

Pushers:

Men: Jordan Aberman, '88

Doug Anderson, '87 Bert Coudriet, '88 Tony Gallippi, '88 Jeff Kochanowski, '88 Andy Salamy, '89 Bob Stefanowiczs, '89 Matt Pollack, '87 Ted Roller, '88 Ried Thiel, '90 Pete Shields, '90

George Fennel, '90 Mike Dosik, '89

Support: Alan Wagman, '90

Mike Wiegand, '88 Mike Coughlin, '87 Matt Pritchard, '87



Sigma Alpha Epsilon Sweepstakes '87 should be our best ever. Our push team is hoping to improve our best times, which were set in '84. With nearly every member of last year's squads returning and the addition of several new members, our team has strenght and depth. The buggies *Intrepid* and *Hustler* should be fine tuned by race day, and new technology may bring some surprises. Also be on the lookout for the traditional *Limo* which, rolling it's own window, will try to break the three minute barrier.

The brothers and pledges of \$\times AE\$ take great pride in participating in Sweepstakes and Carnival. We plan to have the best time possible and wish everyone good luck and an enjoyable Carnival. While everyone is rolling, we're sure to be rocking.



Existentialism is by no means a universal concept.

Chairmen: Mark Estes James Shaw

Buggles: Lemur, 1982 Colugo, 1984

Yamabachi, 1985 Jerboa, 1986

Drivers: Marla Tanimoto, '89

Janet O'Neil, '90

Shobana Balasubramaniam, '89

Lisa Ralston, '89 Laure Schloss, '89

Pushers:

Men: Pete Wolcott

Greg Perkins
J. Smith
Jay Bender
Wayne Gordon

Jim Buell Jeff Chin Tom Glilkson Bill Decoste Jack Glacken John Kim Jerry Kassman Grant Hauber Bill Cantano Tim Yeh Paul Nick Mark Wabalas

Support: Tom Bove

Kimba Walt Barie Rich Bender Mike Lum Tim Skwiot Duane Delaney Don Schieferecke Chris Sheller The Klump Dave Schroeder

"We have the experience to finish first and the inexperience to finish last."

# SPIRIT

Chairmen:

Robert Bowie

Matt Wagner

**Buggies:** 

Genesis, 1986

Elan, 1986

Sting, 1986

Quantum Leap, 1987

Drivers:

Seana Chun, '87

Michele Kolonay, '87

Joy Whittington, '89

Nancy St. Louis, '88 Glisel Bisbal, '90

Mona Walker, '90

Bennett Leff, '87

Jay Glaspy, '88

Chris Hansen, '89 Tony Rankin, '90

Jay Brevard, '90

Arnold Shan, '90

Arnold Rose, '90

Gwen Franklin, '89

Trina Troutman, '89

Donna Spicuzzy, '90

Lauri Shoemaker, '90

Andy Trump, '90

Trish Chorgo, '90

Harvey Beckham, '90

Pushers:

Women:

Support:

Brent Caldwell, '89 Men:

Fued Butler, '88

Mark Brownlee, '89

Tom Killen, '89

Scott Maxwell, '89

Kevin Joy, '89

Reggie Motley, '89

Kevin Green, '87

Eleanor Reid, '87

Leslie Williams, '88

Laurie Jackson, '87

Beth Virgin, '89

Sonia Miller, '89

Christie Munn, '87

Dana Cornish, '90

Tom Felmley, '87

Bill Mullen, '87

Dave Sowers, '89

Willie Reuda, '87

Denise Redman, '89

Mike Conners, '90

Aneida Oakley, '90

Rae Threshfield, '90 Cindy Gordon, '90

Nina Jefferies, '90

Shoshana Samuels, '90

Karen Jones, '88

Leesa Keyes, '89



Spirit Buggy is in the third year of its three year plan. The first year we simply wanted to compete. The second year we wanted to be competitive. The third year we want to win (everything).

No one knows if this third goal will be reached. Spirit Buggy is fun and exciting but also terribly unpredictable. We have the experience to finish first and the inexperience to finish last on any given day. Watch us on race day. It will be exciting.

# "Just when you thought it was safe. . . SDC Buggy refuses to give up the fun."

# SDC

Due to the new safety rules, SDC is changing just like every other organization. Opus and Banzai have needed a few modifications to get back into fighting shape. Ironically, Blue Haze, our oldest buggy (and the only buggy to successfully pass the parking-meter test) needed no changes to keep rolling.

rolling.
While the safety crunch
has caused our mechanics
some (HA!) grief, the new
rules have also given us a

wonderful excuse to build another buggy. Even without room in the budget or the buggy room, a new land-shark has been created. When loose on the streets, it will

show that safe times can be

good times, too.

As for the real part of Buggy - the people behind the machines - SDC is proud of its lunatics. We feel that we have a good mix of mechanics, drivers, pushers, and support crew, with everyone struggling to maintain a good team as well ashis own sanity. We've tried to keep the Buggy spirit a friendly one.

The key to SDC Buggy is our motto of the year. Our prime motivating factor is simply stated:

FUN IS NOT A CRIME!

Chairman: Carolyn Muskat

Buggies: Blue Haze, 1978

Opus, 1984

Carolyn Muskat, '87

Jenn Hebert, '89 Barry Drobes, '89 Banzai, 1986 Mako, 1987

Joyce Alba, '89 Danny Winigrad, '90 Lisa Shannon, '88

Marc Steinman, '88 (P)

Eddie Yeh, '89 (M, P)

Eric Abrams, '89 (P)

Geoff Ringer, '89 (P)

Fred Weening, '88 (P)

Gordon Smith, '89 (P)

Jamie Golden, '88 (P)

Jeff Meckler, '89 (M,P)

Larry Gold, '89 (M,P)

Larry Pawlik, '88 (P)

Ray Young, '88 (P)

Rob Gainor, '87 (P)

John Doerschuk, '88 (M, P)

Gregg McShea, '88 (P)

Pushers:

**Drivers:** 

Men: Alfredo Apolloni, '88 (M,P)

Bruce Shultes, '89 (P)
Chad Wilson, '87 (P)
Curt Rissmiller, '88 (P)
Dan Simon, '87 (M, P)
Dave Musgrave, '88 (P)
Ed Walters, '88 (P)
Skip Shade, '89 (P)
Steve Giamporcaro, '88 (P)
Steve Ray, '89 (M,P)
Tom Ference, '89 (M,P)

Tom Hunter, '87 (P) Dave Kraynie, '87 (M,P) Dennis Crummi, '87 (M,P)

Women: Delia Vayanski, '89 (P) Jackie Yonek, '87 (P)

Jen Cairns, '87 (M,P) Tal Lewin, '89 (P) Lisa Stanziale, '89 (P) Maureen Stempkowski, '87 (P)

Susie Stofan, '87 (P) Wendy Rovansek, '87 (P)

Support: Phil Tubesing - mechanic

Glenn Meter - Push captain Karl Boechtel, '89 Dave Kraynie, '87 Eric Whittle, '88 Kate Woomer, '89 Tracy Stewart, '87 Jamie Apel, '87

P - Pusher, M - Mechanic

"The Nipper would roll with such grace Never better than just seventh place With Rob, Marc, and Reid We got lots of speed And finished at fifth in the Race."



Chairman: Paul DiMarco

Tom Hartman

Buggies: Nemesis, 1987

Valkrie, 1987 Little Nip, 1984 Rapier, 1983 Relayer, 1978 Xi-Clone, 1969

Drivers: Rose Feliciano, '87

Helene Benedetti, '88 T

Bageshir Shirali, '89

Alex Rosenberg, '90 Trung Luong, '90

Pushers:

Men: Jim Denberg

Bruce Kagan Allen Cubell Warren Lehew Rob Cohen Reid Horovitz Marc Archambault Tom Klempay Geoff Citron Jim Patterson Barry Walker Cory Dworken Erik Swenson Bill Ulicny

Women: Carolyn Kelly

Sarah Ruggles Donna Nyzio Madaline Schneider Darcy Snyder Chris Spadaro Kris Stringer Deb Lustig

Support: Steve Dreskin

George Farmer Gerry Bell Dave Bishop John Olsavaky Pat Carey Ban Herr Allen Arbell Vince Carozza Geoff Citron Jim Jantos Tom Jantos Reid Horowitz Rob Cohen Mark Garrity

2:13.27 N.F.E.

Sweepstakes 1986 would be the year that we surprised a lot of people during the finals, including me and the Hill 3 pusher Marc Bolan. During the preliminaries, our A buggy Little Nip rolled a 2:16 for, yeah you guessed it, seventh place again. But we did get into the finals. With a little nip of magic, the A team of John "Waugs" Waugaman, Reid Horovitz, Marc Bolan, Rob Cohen, and Scott Walker pushed "Nipper," driven by Tracy Spool, to an all-time Theta Xi record in 2:13.27 for fifth place, our first Race Trophy ever.



Special thanks to our drivers Helene
Benedetti, Rose Feliciano, Bag Shirali, Alex
Rosenberg, and last but not least Trung Leong
for all his help. Also thanks to the Crew
members whose dedication never went
unappreciated, especially Paul "Puma" DiMarco,
Johnny "4.0" Oslavsky, Geoff "Flywheel" Citron,
P.J. Carey, Gerry Bell, Mark "Moxie" Garrity,
Dave Bishop, Tom Hartman, and everyone else I
forgot to mention.

### Glossary

- buggy n. a two-, three, or four-wheeled vehicle built, manned, and pushed by CMU students in the annual Sweepstakes races during Spring Carnival.
- Buggy n.(slang) 1. the event which is Buggy; collective name for he annually-run Sweepstakes. 2. the sport which is Buggy; the year-round sport of preparation and training for Sweepstakes.
- Buggy Chairman n. the person who is in charge of an organization's Buggy program.
- buggy course n. the series of roads on which the buggies travel during the race. There is only one such course in the United States. (See map.)
- buggy organization n. a group of CMU students which fields at least one buggy in Sweepstakes.
- buggy team n. the set which consists of a driver, five pushers, and a buggy.
- bump v. to shove a buggy forward and then run to catch up with it. This technique is most often employed by the Hill 5 pusher.
- capability ("cape") test n. A test held in front of Baker Hall to test a buggy's braking system and the driver's braking ability. The buggy must be able to stop within aspecified distance while traveling at a minimum speed of 15 mph.
- the Chute n. the area of the freeroll with the tightest turn, in which buggies travel their fastest. The Chute is lined with bales of hay to protect the buggy and driver in event of a crash.
- Compubookle n. the mysterious gnome who lives beneath the Panther Hollow Bridge and handicaps Sweepstakes each year in The Tartan. No one knows his true identity, not even the editors.
- crew n. the team of mechanics of a buggy organization. Can be found in rented trucks in front of Margaret Morrison Hall on Raceday.
- DQ n. the disqualification of a buggy.
- **Design Chairman** n. the person who is in charge of the buggy design competition on Thursday. (See Design.)
- driver n. the student who rides inside a buggy and steers it around the course. Drivers are of short stature and light weight, and are usually female.
- the Driveway n. the entrance to the Scaife/Hamerschlag Hall parking lots. A buggy which cannot "roll the Driveway," let alone past a few Porter Hall windows, is a slow buggy indeed.
- drop test n. This test is performed after each heat on Raceday, on the sidewalk in from of the gym. When the buggy is rolled down the hill towards Margaret Morrison Hall, the driver must be able to stop completely, release the brakes, and brake again to a stop within 15 feet. Failure of this test results in a disqualification.
- duct tape n. the all-purpose material used in buggy construction. Without duct tape, it is said, Buggy would not be possible.
- exchange n. 1. the act of "passing" a buggy from one pusher to another pusher. 2. one of three neutral zones in which buggies can be passed.
- **flagger (1)** *n*. a member of a buggy organization who helps restrict traffic during Sweepstakes, freerolls and push practices.
- flagger (2) n. the member of a buggy organization who stands on the course, signals the drivers and helps them navigate the course.
- Flagstaff Hill n. the area of Schenley Park which is completely surrounded by the buggy course. (See map.) Also known as the "Green Beach."
- **follow car** n. the car which drives behind each buggy heat and carries judges and crew members.
- freeroll n. 1. the portion of time during a buggy's run when it is not being pushed. 2. the section of the buggy course between Hills 2 and 3, in which the buggy is not pushed.

- freerolls n. the training periods during the year when (a) drivers practice driving buggies on the course, and (b) organizations test and improve the designs of their buggies. (Pushers also practice during freerolls, particularly buggy exchanges.)

  Freerolls are held in the fall and spring during fair weather, on weekends between 6 and 9 a.m. The entire buggy course is closed to traffic during freerolls.
- **hills (1 to 5)** *n*. the uphill sections of the course where the buggies have to be pushed. (See map.)
- lead car n. the car which drives in front of each heat, and which carries the Sweepstakes Chairman, the head judge, the film crew and WRCT sportscasters.
- **neutral zone** *n.* (or "exchange zone") the 15-yard area between connecting hills where pushers exchange the buggy.
- pass test n. the test which requires a buggy driver to pass another buggy safely during the freeroll.
- Permit n. the slip of paper from the city of Pittsburgh which allows the public roads of the course to be used during Sweepstakes. Often very hard to obtain.
- plck up (a buggy) v. to resume pushing a buggy uphill after it has emerged from the Chute. Performed by the Hill 3 pusher.
- pizza men n. the people who get the most irritated by the closing of streets during push practice. These people can be very dangerous to the flaggers who halt traffic.
- the Plug n. a fireplug on Frew Street past the Porter Hall windows. The ultimate gauge of a buggy's speed in the freeroll.
- **push practice** n. training periods during which pushers (a) "get in shape" to push, and (b) practice pushing and exchanging buggies. Push practices are usually held on weekday nights in March and April between midnight and 1:30 a.m. Tech and Frew Streets are closed to traffic during push practices.
- **push team** n. the group of five pushers who push a single buggy around the course. There are three push team categories: men's, women's, and alumni.
- **pushbar** n. the handlebar that extends out of the rear of a buggy, which a pusher uses to propel the buggy.
- **pusher** n. a student who propels a buggy uphill. Five pushers are required to push a buggy completely around the course.
- roll v. 1. to run a buggy in Sweepstakes or practice. ("Are the buggies rolling today?") 2. to roll past ("That buggy rolled seven windows!").
- roll-out n. the uphill portion of the freeroll where a buggy loses its momentum and is "picked up" by the Hill 3 pusher.
- Safety Chairman n. the person who is in charge of inspecting all buggies for driver safety. (See Safety, page N.)
- spin-out n. loss of control in the Chute which can cause a buggy to slide sideways or even crash into the haybales.
- Spring Carnival n. "a last stop before finals;" the annual campuswide celebration (of nothing in particular) by CMU students, usually two weeks before the end of the academic year.
- sweeper n. a member of a buggy organization who sweeps the buggy course of debris before Sweepstakes heats and freerolls
- Sweepstakes n. the official term for the racing of buggies during Spring Camival.
- Sweepstakes Chairman n. the person who supervises both Sweepstakes and the preparation activity during the year. The Chairman monitors the organization participating and ensures that everything runs smoothly.
- windows n. the main gauge of a buggy's performance in the freeroll. Next to the base of Hill 3 lies Porter Hall, which has nine windows facing the street. The more windows a buggy can roll, the higher its speed and the better its performance.

### **Credits**

Sweepstakes Chairman - Shawn Stufft Assistant Chairman - Tricia DiMarco Safety Chairman - Steve Ng (Sting) Design Chairman - Kathy Flannery

Buggy Book Chairman - Olve Peersen Layout and Design - Becky Finkel

Many thanks to Mark for his patience, Paul for his sanity, and Teresa for her ability to sell. Also John Friedmann, Phil Tubesing, Alan Berger, *The Tartan*, Joe Dicey, and Ann Witchner.