FLYTC DISC I L L U S T R A T E D \$1.50 volume 2 number 4

volume 2 number 4

April Fool's Hostage Classic **Indoor Freestyle**

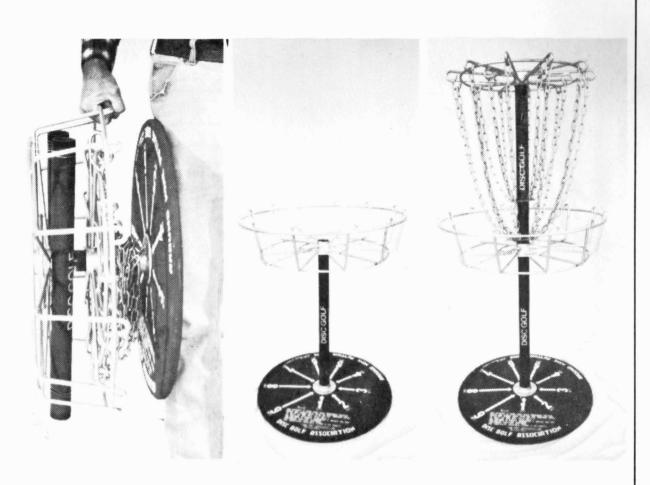
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FDI UPDATE

I'm sure that a lot of you were starting to wonder if another issue of FLYING DISC ILLUSTRATED was ever going to come off the press. Granted, it has been a while since the last issue but you can rest assured that FDI is going strong and will continue to grow. We have already started to work on the next issue so it looks as if this will be the last issue that prints behind schedule.

I would like to thank everyone that has supported FDI by way of both contributions and subscriptions because there is no way FDI could have gotten this far without your help. Starting with this issue, if you contribute an article that gets printed, you will receive a complimentary one year subscription to FDI. FDI is also looking for contributing editors. If you're interested in working with FDI just send us a brief summary of your disc background and what types of articles you would like to contribute.

Flying Disc Illustrated is always looking for good black and white action disc photography (5x7 is prefered). Inside photos pay \$5.00 each and the cover pays \$20.00. All pictures sent with self addressed return mailers will be returned after the issue is printed.

All future issues of FDI will be typeset (see the WORLD INDOOR CHAMPIONSHIPS article) so look forward to a more professional looking magazine in the future.

Clayton S. Chase
Executive Editor

FLYNKG DUSC

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FLYING DISC

ILLUSTRATED









PAGE 5

PAGE 11

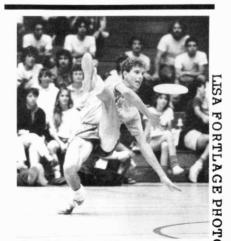
PAGE 12

PAGE 13

CONTENTS

DISC ATHON-The debate continues	4
DISC MAIL	4
APRIL FOOLS EAST Hostage Classic and Fisheads rule	5
SOUTHWESTERN TEAM DISC GOLF CHAMPIONSHIPS	6
THE SCOTT ZIMMERMAN INTERVIEW	7
DISCOVERING THE WORLD-More than just a disc store	9
DOUBLE DISC COURT IN SOUTHERN CALIFORNIA1	
MY LIST OF OFTEN MADE MISTAKES IN DISC GOLF1	2
WORLD INDOOR FREESTYLE CHAMPIONSHIPS1	3
8TH ANNUAL OAK GROVE WINTERTIME OPEN1	6
THE AEROBIE STORY1	9
10TH ANNUAL VIRGINIA STATE CHAMPIONSHIPS 2	
UPCOMING EVENTS2	2

ON THE COVER



Jim Schmal getting hein during \circ the finals of the World Indoor Freestyle Championships.

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DISCATHON-Debate Continues

Recently Billy Bloom circulated an article, "A Test of Discathon," criticizing the event and suggesting it be removed from tournament play. In that article he presents the results of an experiment he conducted at the New Jersey State Championships. Below are views different from his on discathon's validity as a disc sports event in the context of that tourmament.

1. I polled six former NJ champions and 25 other participants in the New Jersey championships. 24 people of the 29 expressing an opinion favored discathon at the tourmament. Some of those favoring the event believed one or more of the following:

· Discathon requires the ability to throw comsistent, accurate throws and endurance, skills developed especially by Ultimate players, as well as the ability to throw rollers, big curves long throws, and a variety of other throws accurately.

· They enjoy competing in the event.

• The NJ Championships is the only tournament in the northeast with Discathon.

· Discathon is exciting to watch.

2. Matt McDonnell, who, though not a novice, has not played in a PDGA or world championship event, finished 21st in discathon at the NJ championships. He finished 24th in golf, But in distance Matt threw over 100 meters in the finals, good for seventh place, using a brand of disc he had never thrown before. Using Billy Bloom's logic, distance should not be an event at the New Jersey Championships. However, I believe distance should be included and the above is and example of how different people have different skills.

3. The competitors who finished second, third, and seventh at the 1985 US Open competed in Discathon at the NJ Championships, Each finished in the top five in discathon at the NJ Championships. That shows a correlation between disc skill evidenced by success in tourmament play and discathon

4. I talked wih Jack Gersheidt, the subject of Billy's experiment, during and after the tournament. He said discathon required much more disc skill than he had thought. He specifically cited the finish of the course requiring a 75 yard throw over water which can cut 15 seconds from a competitor's time if completed . Though Jack did finish 10th in the finals of the event his time was 1:17.5 off the winning pace. He was not a threat to the leaders. If bad weather had not kept the turnout so small he would have finished in a much lower

5. The top finishers in discathon at the 1985 US Open were Dan Doyle, Jens Velaquez, Leonard Muise, Tom Krajna, Tony Pellicane, Harvey Brandt, Nick Hart, Don Wallace, and Joe Youngman. Anyone familiar with tournament disc will recognize the level of disc skill

among them.

6. Any game requires a complex of athletic skills. If Michael Jordan competed in the Mid Atlantic Ultimate Regionals

his team might win the tourmanent and Vingerelli's slo-mo S-throw from the the MVP. That would happen because prove that Ultimate is not a "test of disc skill."

7. Discathon was an event in the Texas, Florida, Virginia, Washington, and New Jersey state tournaments in the past year as well as many other tournaments, Those are approximately one fifth of the state tourmaments contested. That shows the event appeals to players in many regions of the country.

Note: The author won discathon at the 1976 Octad.

Thomas Gockel, Edison, NJ Stay tuned next issue for the "Air Jordan Ultimate Test"....Ed

I was troubled by your questioning of discathon's "integrity" as a tournament event - particularly the elitists notion that any event in which outsiders fare well against "the bevy of talented and practiced Frisbee athletes" ought to be reconsidered. Generally, Billy I found

your perspective myopic.

Allow me first to add fuel to the fire. Certainly discathon emphasizes skills unrelated to disc play more than any other event. Dan Doyle, for instance, did run the mile competitively (4:20 is rumored), and blew us all off the course in the U.S. Open finals. He finished 52nd overall and captured a better paycheck than 7th place Pryor Hendrix. The important point, however, is that running skills can only compensate for, but ultimately cannot replace, throwing and thinking skills. To put it differently, I believe the 14 second difference between Doyle and I in the finals may be attributed more to my inabilty to execute a two-fingered roller under pressure or a scooper at all than to his superior speed. Moreover, if and when such speed becomes commonplace in discathon, it will be the idiosyncratic expression and instinctive execution of disk skills which will prevail both competitively and aesthetically over the static qualities of

Beyond this, I feel discathon is great for the game as a whole. If the sport caters only to those already competitive, it will never prosper and will likely flounder. Billy, as your test with Jack Gescheidt illustrates, discathon offers recreational players an avenue to disc competition - creating ever more ambassadors of the game. While other events seem too incredible (e.g. freestyle, distance) or too sophisticated (e.g. DDC) to a casual player, discathon may best inspire "I could do that" among casual players. And for those concerned with the purity of the game, DDC's growing popularity provides a healthy balance of refinement and experience to dicathon's easy access.

In any caes, the most memorable discathon action at the U.S. Open was not (necessarily) Tony Pellicane's pretty legs or Dan Doyle's flash impersonation. More likely it was Ron

Michael Jordan would be a contender for final mandatory, over the lake, around the MVP. That would happen because the tree, and across the finish. Or Michael Jordan is a better athlete than perhaps it was my fortunate photo-finish most Ultimate players and would not victory in the semis, when I barely edged defending champion Harvey Brandt with a long throw.

Just ask the sectators next time if discathon's intensity and drama are good for the sport, They'll tell you it's

Leonard Muise Berkeley, CA

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Here's a thought you might want to consider: when someone sends in an article or other contribution to FDI, perhaps you could in turn send that person a copy of your magazine (if they are not a subscriber). As people are not subsidized when contributing to the annals of Frisbee literature, it would seem to me a nice gesture. (In case it isn't obvious by now, I found out from a friend just recently that you had run my article on Discathon in your fall '85 issue...). Also, so long as I've got the microphone here, I found it curious that I was omitted from the list of "contributors" on page 3 of the same. Oh well, woe is me. In spite of the above, I am quite pleased you chose to run my piece, and I plan to contribute again in the future. You've got a nicelooking magazine; good luck for continued success with it. Billy Bloom

Billy.

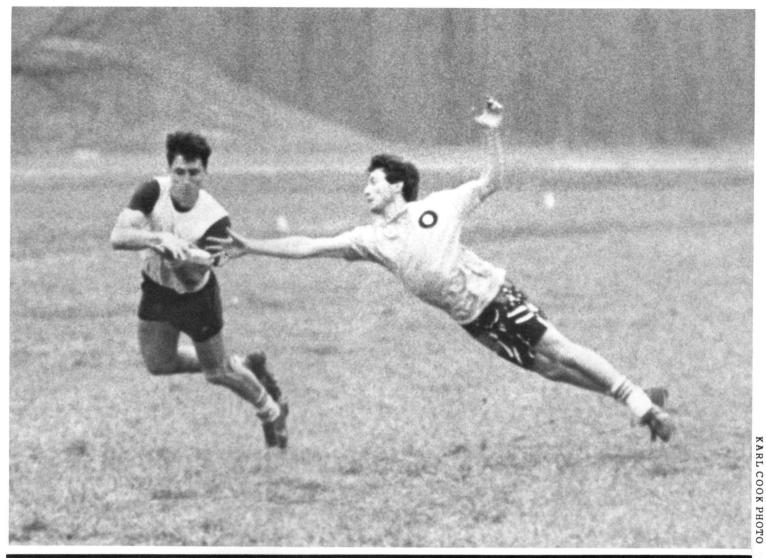
New York, NY

We thought this was such a good idea, we decided to take it one step further. From now on if you contribute an article or tournament results/article and it gets printed in FDI you will receive a one year subscription. Also, FDI apologizes for omitting your name from the contributors listing, you can be sure this kind of thing will happen again but hopefully not to you. ED

I received my first copy of FLYING DISC ILLUSTRATED in the late fall from a good friend who lives in California, I am very interested in the magazine! I especially enjoyed the article by Billy Bloom. I made my pro circuit debut at the World Finals in Tulsa, OK in July, 1985 and I am just now becoming aware of the frisbee world. I wish you continued success for your magazine and eclosed is my money for a years subscription. Thanks for producing such an informative magazine!

Kelly Rubes Yukon, OK





Hostage Classic Fools All

A team composed of eleven former members of the once strong Boston Hostages, calling themselves Hostage Classic, were the surprise winners of the ninth annual April Fools Tournament. The Hostage Classic team employed a strong zone-defense to complement a good man-on-man defense to keep opponents at bay.

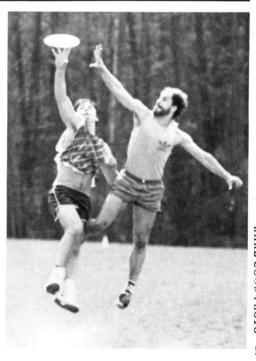
Quarterfinals. The most competitive game in the quarterfinals was the Spot (NYC), Idz Delako (Boston) matchup. Spot used their long game to stay ahead of the Boston team; a team that featured many of the top players from Titanic. The game got very close as Idz Delako came back to tie the score at fourteen with the cap set at fifteen. Spot scored the final point on a Kevin Cande bomb to Lindsey Scoggin, propelling them into the semi's. In the other quarterfinal games, Kaboom! (NYC) trounced the Plummers (Pittsburgh), Hostage Classic

defeated the new Boston team, the Boneheads while Life (NYC) defeated an undermanned Windy City team (Chicago).

Semifinals. Life got a quick start on Hostage Classic to lead by two at half, 8-6. The boys from Boston responded by scoring the first six points of the second half. With a 12-8 lead they never looked back, earning a trip into the finals. The other semifinal game pitted the upstart Spot team against Kaboom! for bragging rights of New York. Both teams played extremely well in the first half. Kaboom! holding an 8-6 lead, added two quick scores at the start of the second half to increase its lead to four.

Spot, taking advantage of Kaboom mistakes near Spot's goal line, tied

continued on page 10



Southwestern Team Disc Golf By Snapper Pierson

Every year on the first weekend in December, San Siego hosts the top 100 Disc Golfers in California. They come looking to defend their course's honor in the "Southwestern Team Disc Golf Invitational". The five teams participating this year were San Diego, La Mirada, Huntington Beach, Oak Grove and Northern California. Each 20 person team consisted of 16 Open division men, 2 masters (35 and over), one woman, and 1 junior (16 and under). The tournament is a round robbin match play tourney with each member of a team playing against the corresponding player from another team (ie #8 player on Team A plays #8 player from either Team B,C,D, or E). In each round there are 20 possible points (20 holes) at stake - each individual win is worth 1 point, a tie worth a half point. The top two teams emerging from the round robbin face off in the final on Sunday. The players compete with pride for the honor of saying their course has the best players.

The rainy weather looked dismal on Friday before the tournament, but fortunately cleared for Saturday and Sunday during the tournament. The first round pitted San Diego vs. Oak Grove and La Mirada vs. Huntington Beach. San Diego (18.5) and La Mirada (15.5) earned easy wins. And so the day went with both San Diego and La Mirada undefeated when they met head to head in the 4th round. The match was so close the results weren't announced until the last players came in off the course. San Diego had won 10.5 to 9.5. This score proved to be an omen, for when San Diego and La Mirada next met in the finals 13 of the 20 individual matches had a different ending than in the preliminary round yet San Diego still won 10.5 to 9.5.



Olow sinks putt while Jack Stanton, fellow team

Many players consider this the most fun trophies there is a pepetual trophy kept tournament of the year. Being a team by the winning team captain for one effort there is little individual pressure. Between each of the five rounds there was a random drawing held, giving away discs and shirts to 40% of the contestants. Each team was provided with now reside permanently here in San personalized team shirts in their home course color and free lunch. Not to mention the bag of new throwing plastic more area's to participate. Also, we're each member of the winning team receives. The discs are donated by our sponsors Innova-Champion, Wham-O, Discraft, and the Disc Golf Association. were at stake even more areas would seek Additionally, along with individual an invitation.

year.

This makes the fourth straight year San Diego has won, never having lost a single match. The perpetual trophy will Diego. Next year the format will change to 10 person teams. We will then invite actively seeking a sponsor who would like to hook up with a rapidly growing new sport. I'm sure if financial rewards





The players of the Southwestern Team Disc Golf Invitational outside the Morley Field Pro Shop building. That's Hollywood Pierson front and center.

Chris Dodd sinks putt on hole one on his way to beating Marcus Asneros from La Mirada.

Twenty-four year old Scott Zimmerman is the current U.S. Open overall champion. Scott won his first Wham-O overall championship at age seventeen, and with one exception, has defended his title successfully every year. Scott has also thrown an Aerobie flying ring 1125 feet, the current Guiness world record for the farthest throw of any object. He is now living in Arcadia, CA and is a full-time student in Cal Poly Pomona's computer science program, but still manages to get several disc hours in each week. Scott was interviewed via telephone by FDI's Jim Schmal on May 12.

FDI: Scott, you've won six out of the last seven overall championships. That's an incredible feat.

SZ: The first four were when they still called them the World Championships. I personally don't feel Santa Cruz is run well enough to be called the World Championships. This is not to take anything away from the overall winners at Santa Cruz over the last few years, but I do feel that Tom Schot just took the name. I could call my tournament the World Championships if I held it on my front lawn tomorrow. There's a distinction between me just saying my tournament is such and what WFDF (World Flying Disc Federation) says. We should cooperate with all the different player organizations in all the WFDF countries, and if that kind of cooperation leads to SZ: Let's look at it from the standpoint SZ: Well, over a year ago I met with the

the tournament that I'd be a fool if I overall championship six of the last or six throws over 300 yards. pretty well.

FDI: What changed in '84?

I'm not saying that that's what losing, and that's what I try and do. encouraged me to get back into it, but I FDI: What is your training schedule for think I just changed my goals a little the Open this year? bit. I was a little tired of frisbee in SZ: I'm playing DDC in Pasedena two to '83, and then I realized that I could go four times a week. I also throuw MTA's to school and do the overall, too.

have much left to achieve. What are soon, too. I freestyle with Stork (Dan your goals?





and working at those. I enjoy playing is the archivist of disc records for frisbee a great deal, and I'm the kind their book. So Alan got me on NBC SZ: DDC was added to the format in '84, of person who enjoys winning more than

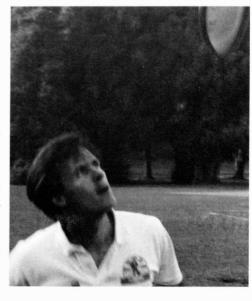
for 15 to 20 minutes beforehand, and I'm FDI: Scott, it doesn't seem like you going to be practicing distance very Roddick of Wham-O) pretty regularly--we always play with a 119 g. I'm also running about five nights a week, about two miles, for discathon. I haven't been practicing golf or accuracy yet this year, so I'm going to have to start getting out there.

FDI: Who is your competition this year? SZ: In the overall, you're not facing anybody. You're facing the statistics board, and that's just a mystery, all week long. And although I know who the other good players are, you can't really do anything about it. You're never going to win the overall by trying to win it. You have to get ready for each event when it comes up.

FDI: Let's talk about your Aerobie record.

an event caled the World Championships, of individual events. For instance, I designer, Alan Adler out at the Rose then it can be recognized as such. am by no means satisfied with my level Bowl. That's when I found out that he FDI: In 1983, Jeff Watson won the U.S. of freestyle skills. When I go to a had a \$1000 prize for the first person Open. That was the only time in the freestyle meet, I'm just blown away by to be recognized by breaking the last seven years that you have not won a the level of skill and the ease with Guinness world record for a thrown Wham-O overall event. What happened? which those players can control the disc object, 282 yards. So I decided to try SZ: Well that year I really didn't train and the space they move through. If I for it. The first day I tried, I threw at all. I was going to school full could do that I would have much more 250, 270, and 280 yards, using a regular time, and I talked myself out of having fun. I'm not saying that I have a goal backhand grip and a turnaround. Then on a shot at the overall there. I finished to become the World Freestyle Champion another day, Stork and I went to the third because I decided a week before before I die but... Even having won the Rose Bowl and I was able to throw five didn't go out there and make an effort, seven years, there are lots of things longest we measured was 349. Alan Adler because I still had the ability to do that I don't do right. So I keep trying loved it and Guiness took it since Stork

CONTINUED ON PAGE II



DISCOVERING THE WORLD

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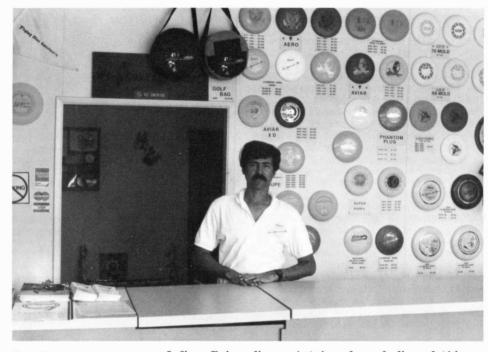
A recent visit to "Discovering the World" was a revealing experience. The most apparent fact was that flying disc enthusiasts are all over the U.S. Many other encouraging signs can be gathered by talking with owner and proprietor Dan Mangone. For instance, Dan was hard pressed to come up with a region which stands out over others in supporting the mail-order trade which comprises from 60 to 85% of Discovering the World sales. Depending on the season, walk-in business accounts for up to 40% of the action.

Naturally, the first thing that comes to mind when you think of Dan Mangone and DTW is Frisbee. Of course, Wham-O flying discs take up a lot of space in the warehouse. You'll find practically any kind of flying disc for any purpose you could want, and at a quite reasonable price to boot.

Beyond plastic, DTW also sells manuy other items for use in what Dan characterizes as "Lifestyle Sports." These include footbags, aerobies, and skateboards, as well as accessories like shirts, hats, and books about disc sports. They may expand into juggling equipment and games in the near future.

from Ron Kaufman (of World Peace Tours region even receiving products within a far as to deadpan that he "lives there" fame). It has already outgrown its home day of calling the shop. on Beach Blvd. in Buena Park, and Dan's further success.

for Dan's success with DTW. Exploiting home base. The aerobie is also a seeing only growth in the future of his obvious familiarity with computers, frequently ordered item. The book by DTW. They love being able to go to work Mangone has compiled the most com- Irv Kalb and Tom Kennedy, Ultimate: each day and talk to people about prehensive list of disc players ever. Fundamentals of the Sport, is the best Frisbee all the time. He states that almost all of his orders selling reading material ordered.



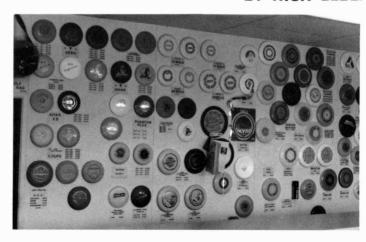
Dan Mangone, purveyor of fine flying discs, skateboards and disc clothing behind the counter at Discovering the World's Buena Park store.

ambitious plans for expansion are sure According to Dan's faithful assistant promoter and organizer for the La Mirada to result in the organization attaining Jeanine, golf discs comprise the maj- Open and the U.S. Open Frisbee Disc ority of the disc business, due to Championships. accessability through DTW and probably Organization is probably the key word the lack of variety at the customers' Dan and Jeanine are very optimistic,

are shipped within 24 hours, with some Both Dan and Jeanine divulged that they Dan acquired DTW less than two years ago customers in the Southern California work very long hours, Dan even going so (at the shop). In addition to all the above responsibilities, Dan is the

BY RICK LEBEAU





CONTINUED FROM PAGE 5

the score at thirteen. A miscommunication by Kaboom! on the first pass off the ensuing pull gave Spot an easy score and game point. The last play of the game was memorable. After a Kaboom! turnover , Spot was forced to call a time-out with the stall count at eight. Following the time-out, an attempted long throw was partially blocked at the point by Joel Zuckerman and sailed high into the air. Two Kaboom! players converged on the disc but managed only to deflect the disc further down field. Spot's Kevin Cande was able to recover the battered pass for a completion. Cande then turned and fired the final tally of the game.

Finals. Spot, playing in their first big tournament, had reached the finals. Hostage Classic was ready. They opened a huge lead using a zone-defense that totally stifled Spot's offense. They forced many turnovers for easy scores building a 10-2 lead. Spot went into a zone of their own, and it was the Hostages turn to falter. A 7-1 run by Spot made the game close once again at 11-9. But the Classic defense stiffened and held off the Spot challenges the rest of the way. The final score was 15-13.

Players from Hostage Classic will now split into Titanic and a new Boston Team, the Popes. For Spot, the second place finish should give them a lot of confidence for the rest of the season. It also gives the New York area three very strong teams, all able to challenge the reign of power that

Boston has held for the last five years.

Reprinted from the April 1986 edition of "Northeast Ultimate"

WOMENS RESULTS

The Michigan Fisheads won their fifth consecutive April Fools title, defeating the UPenn Zephyrs in the final game. The twelve team field endured both upsets and routs. The Fisheads, led by Tree van der Burg and Didi Koblaritz, continued their streak but did have problems in the early going. The Zephyrs defeated the Michigan squad in the preliminary round. Both pools were quite competitive and point differential separared many teams. In one pool, the Fisheads, Boston Area R.F. and the University of Virginia all tied for first place.

Semifinals: The Fisheads were able to stymie the Boston Area R.F. squad with their zone defense. The final score was a lopsided victory as the Michigan team got prepped for their title defense. The other semifinal game had UVa. paired against the Zephyrs. UVa. built up a four goal margin only to have the Zephyrs come back and win the game 15-13.

Finals: The final game was very scrappy from the onset. The Fisheads, using their zone, took a two goal lead at half, 8-6. In the second half the Fisheads ran away with the game as the Zephyrs could not mount any attack. The final score was a convincing 15-7 victory for the Fisheads.

Reprinted from the April 1986 edition of "Northeast Ultimate"



KARL COOK PHOTO

BY MAURICE MATIZ



HOSTAGE CLASSIC KABOOM PLUMMERS SPOT IDZ DELAKO 14 HOSTAGE C. LIFE WINDY CITY 11 HOSTAGE C.15 HOSTAGE C. HOSTAGE C. BONEHEADS FISHEADS FISHEADS SURVIVAL FISHEADS 15 BOSTON ARF 13 BOSTON ARF NEMISIS FISHEADS ZEPHYRS 13 ZEPHYRS 15 ZULU 5 ZEPHYRS U. VA 5 13 U. VA CMS 13

DDC IN SO. CAL. BY RICK LEBEAU



Rick LeBeau (left) and Randy Aiu compete at a recent "monthly" DDC tournament,

After two consecutive meetings in less than optimal weather, the Southern California DDC League enjoyed a hot, arid afternoon at the April 13 gathering at "Dan Roddick Memmorial Junior High" in La Mirada, site of the U.S. Open Frisbee Championships each summer.

With the wind gusting quite heavily from the south, a distinct advantage was had by the pairs playing from the south courts. Of course, teams trade sides every five points scored, so it was necessary to score as many points as possible while on the upwind courts.

The wind held up during pool play, which found two pools of four teams playing a round-robin format with 15 point games. Pool play found Dunipace/Aiu and Horn/Zimmerman winning their respective pools. The former played Pierson/Cushman in the winner's bracket semifinals, while the latter played Selinske/Mc-

The consolation semis matched Schmal /Stork vs. Bonopane/LeBeau in the longest match of the day, and

Robinson/Vingerelli took on the team of Freedman/Herrick.

As the wind died and conditions gradually became more ideal, the quality of play improved and escapes from doubling situations occurred more frequently, leading in turn to longer rallies.

In a hard played three game set, Dunipace/Aiu won the final two games to advance to the finals, where they were to meet Horn and Zimmerman, who defeated Ske/McInnis in two straight. In the consolation bracket Schmal/Stork won a very tense and long three game set from Bonopane/LeBeau, taking the first and third games, after just missing a sweep. In the other match Freedman/Herrick were knocked out in two by Robinson/Vingereli. Both teams executed many escapes, making for exceptionally long rallies.

By the time the day's last matches began, the air was nearly still, and the quality of play was at a peak offensively and defensively.

As the beneficiaries of a forfeit in the condolence final, Al B. and I were able to observe the final match for 1st between Dunipace/Aiu and Horn/Zimmerman. Both teams were really on top of their game at that stage, making for a spirited level of fierce offensive attacks countered by precise defensive maneuvers to escape.

Although the score reached 13-8 in favor of Dunipace/Aiu in the first game, Horn/Zimmerman showed some mettle and fought back to 14-13 before losing 15-13. It was truly one of the best played games I've witnessed in a long time. Each team executed fundamentals well, but they also showed quite a mastery of some of the more recent advancements, typified by Scott's impossible tips on incoming burn shots. Combined with his other considerable disc skills, Scott's handling of the chores playing the front position makes any game he is in a pleasure to watch. He constantly amazes with his ability to adapt to precarious situations.

However, it wasn't enough on that particular day, as Randy and Dave swept the second game in almost intimidating fashion. It was obvious at that point that they would not be denied.

Meanwhile, Snapper and Mike Cushman dropped their second straight come from ahead match, this time to Ske/McInnis, losing the second and third games.

Notably, Stork and Jim Schmal returned from the dead in the third game of the consolation final, beating Ron and Bob 17-15 after being on the ropes at 8-14. As you can see, they had to score nine of the last ten points to eke out the win.

Double Disc Court is, in my opinion, the most exciting disc sport to play, and along with freestyle can provide the most athletic feats to view. It is the best at eliciting a combination of strategy and agility that have yet been adapted for disc play, I think. I would encourage anyone with at least modest disc skills to get out to a match or tournament and maybe even get someone to teach you the game.



Zimmerman

continued from page 7

Nightly News and he gave me the \$1000 check. Then a few weeks later he held a press conference at the Rose Bowl to drum up more media coverage, and I snapped one off that ended up going 1125 feet, which was 100 feet beyond the record that I already held.

FDI: Did you use a turnaround?

SZ: No, it was only two steps. You wouldn't have believed this flight. It went up and planed out like a TRC would. So that is recognized as the current Guinness world record for the farthest throw of any object. And I have really enjoyed that record because of the press coverage involved.

FDI: Any closing words?

SZ: I look forward to seeing everyone at the U.S. Open!

FDI: Scott, thanks.



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My List of Often Made Mistakes in by Dave Dunipace

Here are, in no particular order, and for no particular reason, ten often made mistakes on disc golf, and what to do about them.

1. Tightness-Inhibiting snap: This often happens when we try too hard to force a shot, rather than letting it happen in a loose fluid motion. It's like throwing with your off-hand. Your body isn't 'programmed' for your off-hand, so you can't let the throw happen fluidly. You almost have to force the throw, using many more muscles than is necessary or efficient. As a consequence, you will end up with sore muscles and poor throws. If you don't feel loose, "natural", or fluid, and especially if you have sore muscles, you have been forcing throws. Loosen up and let your practiced muscles work for you, not against you.

2. Poor practice: Going through the motions is worse than worthless, it will program your body to play in that manner. Sloppy practice breeds sloppy play. Practice as if every shot counts for best results when every shot does

3. Unfamiliar/unreliable disc: This may sound like a plug for Champion Discs, but our discs were designed especially for disc golf. Accuracy and reliability in a variety of wind conditions were prime considerations in the design of our discs. If you don't know what a particular disc will do in any given will play better golf. situation, then you can't have accurate 5. Vague or poor concentration: A lack throws. Use reliable discs and become of kinesthetic and visual focus on the familiar with each specific disc you use snap point, or a lack of peripheral in competition.

in time: If you think about things that culptits after distractions have been have happened, you are using ruled out. Kinesthetic refers to the concentration power on things that are muscular, postural, tactile feel of the history. It's useless, draining, upset- shot. This is the prime sense to use in ting, and, most of all, distracting. Let golf. Use visual as an adjunct, but not



above: author Dave Dunipace putts on #7 during the "Spring Fling" tornament in San Diego. below: Dave drives out of the #8 tee box at San Diego's Morley Field.

things that have happened be history, as a substitute. You can't physically something about. Concentrate on the shot you are doing and nothing else, and you

of kinesthetic and visual focus on the visual and kinesthetic monitoring the 4. Looking backward instead of forward path to the snap point, are the usual

and concentrate on the things you can do see many shots, such as a backhand drive, as you do them. You must visualize them.

6. ANGER: Though anger can be useful to increase energy levels and narrow scattered attention, there is a cost on using anger as a crutch, It hurts peripheral attention and the ambiance of the group. If you need an energy lift, try coffee or another sport if you can't muster the enthusiasm. I get a terrific lift out of a well done shot. If you're not the jealous type, you can get a similar lift when another member of your

group "hits" a nice shot.
7. Playing "against" someone: playing against someone as if he were an opponent in disc golf is draining, distracting, and stupid. There are no opponents in disc golf, other than the ones you create. Playing against anything, even yourself or the course, is unnecessary, potentially distracting, and draining. This is playing success as a standard and non-success as a failure and a focal point for depression, anger, humiliation, or other negatives. A standard is less rewarding than a goal. So, to use a little mental trick, (learning theory), you can lower your standards and raise your goals. This way, you can play positive golf. You get nothing for poor shots, average shots get some reward, and you get a lift for surpassing your standard (average)

8. Playing the usual conditions instead of existing conditions: This is usually a home-course mistake. If the wind is "supposed" to be blowing from



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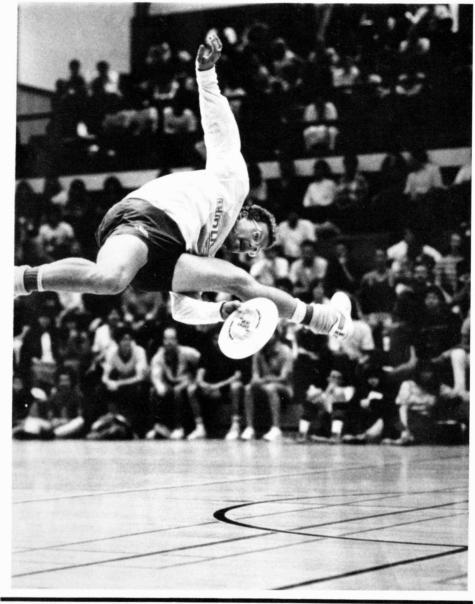
1986 WNODROLODR Championships

BY BILL WRIGHT

Held in San Diego State's gymnasium, the third consecutive indoor championships has developed a good following of participants. The setting resembled that of a high school gymnsium during a pep rally. The crowd was deafening at times. A three hour long show for the aaudience was a 14 hour long ordeal for the player. All packed into one day the event displayed the best of what there is in the worlds of footbag and disc freestyle. The judging system was inhanced by Maainstreet Computer Systems IBM PC and Supercalc. Larry Imperiale organized a smooth running judging process that had few flaws and overall everyone was satisfied with the results. The multiplier was used to even out the categories of presentation, execution and difficulty. The multiplier is one of those things in question in our current scoring system.

Entered in the competition were 11 CO-OP teams and 5 Mixed Pairs. There was not a bad team in the bunch, but as always we would have liked to see a deeper field. Leading the field in the mixed pairs competition were the teams of Castiglia/Anderson, Bell/Zemaitis and Wright/Yabe. Chipper Bell was a late stand in for Joey Hudoklin who has had an injured back for several weeks. Carla Byrd was the newest face in the group as she and Don Fogle enjoyed a third place finish in Carla's first tournament w ever. The top three places were separated by only .64 of a point. An excellent show for the crowd and a great preview of what was to come o in the CO-OP division.

The Frisbee events were stratigically divided by freestyle footbag which was a great break for the crowd and every bit the exciting presentation. And, of course; the antics of Ron Kaufman and Greg Cortopasi on the play by play the audience never left their seats.



above: "Crazy John Brooks gets airborne for this catch during the below: The Coloradicals had a great routine but it wasn't finals. enough to stave off Jim Schmal and Co., who went ahead to take the Coop finals.

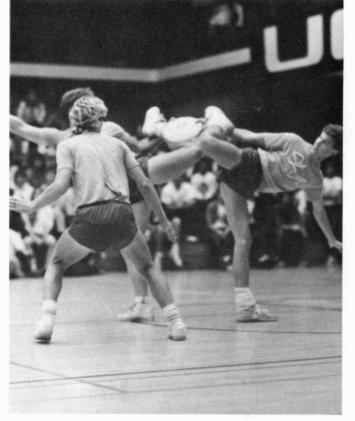


Castiglia and Anderson have now won their first World title in this event, although both have several in other events.

In the CO-OP competition the inherent injury factor once again has plagued a sporting event. Both Joey Hudoklin and Craig Burris were injured prior to the contest. Unfortunately Craig's ankle kept him sidelined for the competition and also sidelined one of the favorits to be highly competitive in the event. Joey was able to play and amazingly fought to an incredible third place finish after going out first in the finals. The Radicals and The Bayou's held up their end and finished the evenings show with two energetic routines that left the crowd standing. Peter Laubert looking for his first world title in over 8

CONTINUED ON PAGE 14

WNODROLODR Championships

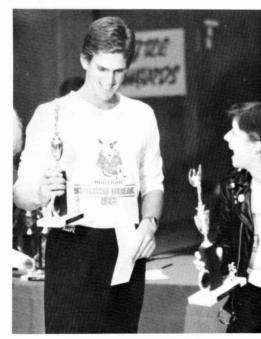


CONTINUED FROM PAGE 13

seasons of competing finally was blessed with that a victory he so desired. He let out a whoopi that brought the house down for one finall cheer as they announced the radicals in second place. Another honorable mention deserves to go the the amazing Paul Smith and his partners John Drube and local stand in Don Wallace. They truely gave meaning to "free" style as the bounced their way around the gym floor, a pleasure to watch.

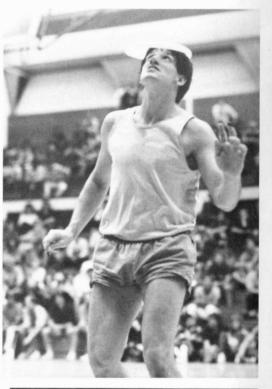
Clockwise from above left: Jim Schmal, Deaton Mitchel, and Peter Laubert took first place in coop. Paul Smith "wowed" the crowd with some truly innovative moves. Don Fogle and Carla Byrd took 4th place in mixed pairs. Chip Bell and Ann Zemaitis receiving 2nd place trophies.





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SWANSON

WALLACE SMITH 7.91

TULIN COATES 7.48 4.32 8.17 19.94

FOGLE BYRD 7.78 8.05 7.53 21.34

WRIGHT YABE 9.77 7.26 8.63 25.66

BELL ZEMANTS 9.88 7.02 8.83 25.73

5.50

5.65

7.43

6.93

7.70

8.00

8.40

8.4

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20 49

22.37

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25.04

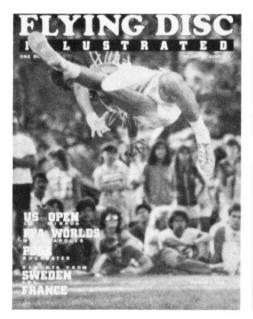
25.83

TOTAL

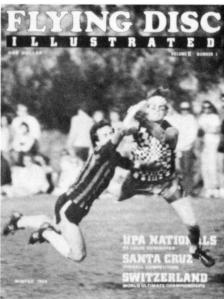
CASTIGLIA ANDERSON 10.77 7.26 8.27 26.3

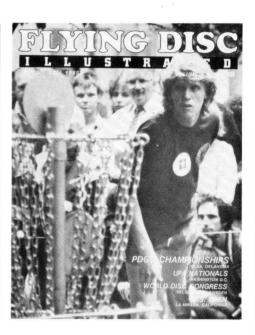
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The 1986 Bud Light Wintertime open (8th annual) was the most successful event ever, competitively, with 201 total entrants. The opening Golf round was played in an almost continuous rain on the most difficult Oak Grove course in history. Best round was -2 by Frank Aguilera. The second round was played during intermittent rains and wind with -2 again being the best score by Randy Amann. On Sunday the final golf round was played under ideal weather conditions with Randy Amann again showing his remarkable consistency leading the pack. The final nine holes were played with a new format. The top three players startred with even scores thus creating a very exciting final. Randy Amann again proves his current mastery over the field by clinching the title.

In MTA the players performed under raining skies all of Saturday and we were able to observe numerous mud and water sliding catches. Jack Stanton eventually triumphed over the field showing good consistency with 4 of his 5 attempts in the final over 10 seconds.

In Freestyle, the FPA ran the event for the first time. Competitors came from all over the country. The weather was good and the freestyle was great. The "Natives" of San Diego (Jim Schmal, Peter Laubert, Dave Murphy) edged out the Bud Light team for the title.

The Overall title came down to two players - Sam Ferrans and Donny Wallace. Since Donny was in the freestyle final we had to wait until after the last event for the results and Sam edged Donny by one point and took home the Casablanca Ceiling fan.

I would like to add a note as the tournament Director. This event has grown over the years through the steady suppport of our sponsors. I would appreciate it if you let them know that you appreciate their support. Write them a letter. Buy their products. Return their support.

BY MARK HORN



Flying Disc Tournament

OVERALL

- 1 SAM FERRANS FAN
- 2 DON WALLACE

GOLF - OPEN

- 1 RANDY AMANN \$750
- 2 FRANK AGUILERA \$400
- 3 RANDY WAGGONER \$300
- 4 SNAPPER PIERSEN \$120 DON WALLACE \$120 SAM FERRANS \$120 GEOFF LISSAMAN \$120 JAMES STANLEY \$120
- 9 JOHNNY LISSAMAN \$92 CONRAD DAMON \$92 JIM OLSEN JR. \$92
- 12 RON WALTON \$75 STEVE BENTLEY \$75
- 14 CHRIS DODDS \$75 ROBERT COX \$75 GREG KOETH \$75
- 17 KEN NICKS \$75 DAVE DUNIPACE \$75 JON SLATER \$75
- 20 JOE URSINO \$58 BOB WEST \$58
- MARTIN SANCHEZ \$58 23 - WIL WEST \$50 CURT CORNUM \$50
- 25 RUSS HAMILTON \$42 KEVIN ROUNDS \$42 GARY OULREY \$42
- 28 BILL NASH \$25 CRAIG BURRIS \$25
- 30 GINO CALVANO \$25 BART SMITH \$25 JOHN BROOKS \$25 ROBVERT RUELAS \$25 MIKE CLOYES \$25
- 35 MATT BRAUN \$25 JOHN WINTERCORN \$25

GOLF - WOMEN

- 1 ANNI KREML \$100
- 2 TITA UGALDE \$50
- 3 CHERYL PALMER \$25

GOLF - SENIOR

- 1 VICTOR MALIFONTE \$100
- 2 MARC HORN \$75
- 3 JIM MCDOWELL \$50
- 4 PAUL HARRIS \$25

FREESTYLE

- 1 PETER LAUBERT \$450 JIM SCHMAL
- DAVE MURPHY
 2 JOHN BROOKS \$350
 CHIP BELL
 JOEY HUDOKLIN
- 3 JOHN JEWEL \$250 DON WALLACE
- STACY ANDERSON
 4 DOUG BRANIGAN \$150
 BILL WRIGHT
- RICK CASTIGLIA
 5 DON FOGLE \$100
 CRAIG BURRIS
- TOM LEITNER
 6 DANNY MCGINNIS \$100
 DAN RODDICK
 SCOTT ZIMMERMAN

MTA - OPEN

- 1 JACK STANTON \$100
- 2 MARK PIEROPAN \$50
- 3 DAVE DUNIPACE \$25
- 4 SAM FERRANS
- 5 MIKE TAYLOR

MTA - WOMEN

- 1 ANNI KREML
- 2 TITA UGALDE

MTA - NOVICE

1 - JESUS MARTINEZ

ALL FIRST PLACE FINISHERS ALSO RECEIVED A GLASS MUG WITH THE EVENT AND TOURNA-MENT LOGOS IMPRINTED.

GOLF - NOVICE

- 1 MUNCH MORRIS 3 DISCS
- 2 KEN DINES 2 DISCS
- 3 RANDY JOHNSON 1 DISC

GOLF - JUNIOR

- 1 ROBERT JEREZ 3 DISCS
- 2 MARC AMIEL 2 DISCS
- 3 STEVE VALENCIA 1 DISC



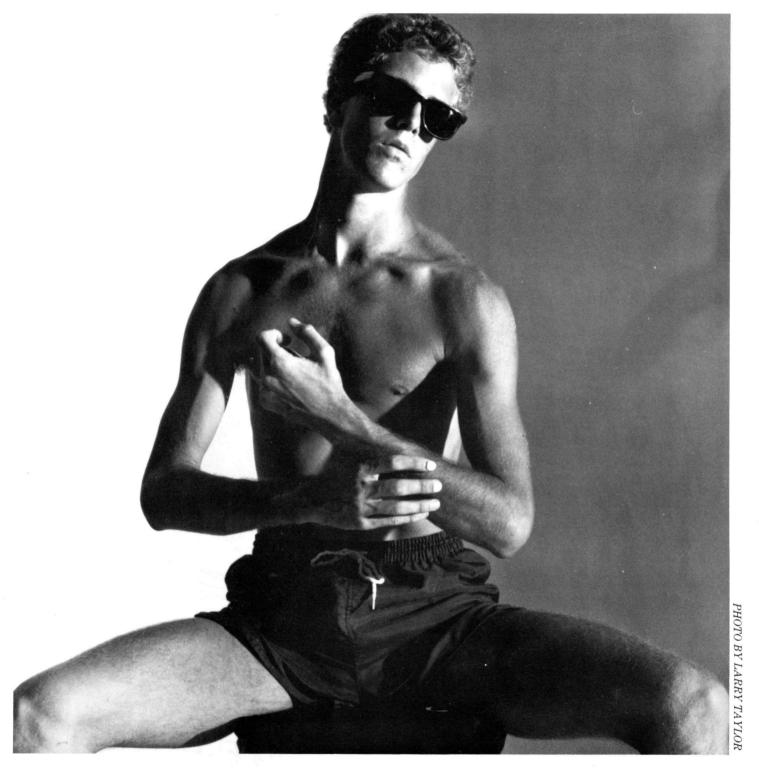
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Peter Weyhrauch - MIT

GUINNESS BOOK OF WORLD RECORDS FOR LONGEST THROW OF ANY OBJECT IN HISTORY

1,125 FEET Thrown by Scott Zimmerman at Pasadena, California, January 30, 1985

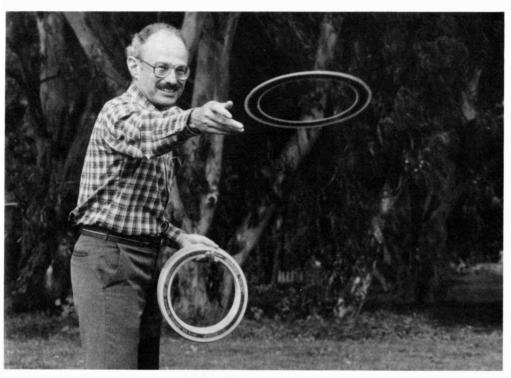
"Here's Spring's New Fling. The bright orange ring is fast becoming the new campus craze.'

Newsweek On Campus



THE AEROBIE STORY by Alan Adler

FROM CHINESE COOLIE HATS TO THE WORLD RECORD



Alan Adler tosses his World Record breaking invention: The Aerobie.

The AEROBIE (r) is a four ounce (113 gram) plastic and rubber flying ring. AEROBIE is thrown about like a Frisbee (r), but most people find that they can throw it two or three times as far with the same effort. The secret of its long easy flight is that it is very thin and slips very easily through the air.

In addition to long easy flights, AEROBIE flies amazingly straight. For the AEROBIE's designer that was the difficult part. The secret of its straight flight lies in its aerodynamic

On Jauary 30, 1985, Scott Zimmerman threw an AEROBIE 1,125 feet, an achievement recognized by the <u>Guinness</u>
Book of World Records as the longest throw of any inert heavier than air object" in the history of mankind.

AEROBIE was designed by Alan Adler, Stanford engineering lecturer and Silicon Valley consulting engineer. Alan has about 25 patents, including two on the AEROBIE. He is also the designer of the SKYRO, which held the old distance record at 856 feet and the Wham-O-Rang boomerang. The following article is a brief life story of the AEROBIE by it's inventor; Alan Adler.

HOW DID IT HAPPEN

People frequently ask me how I came to design the AEROBIE. Did I just stumble over the design? The answer is that AEROBIE is a result of eight years of deliberate research. I set out to design a long range disc. I knew that to fly far it had to be thinner than a make it fly straight. Along the way my disc lost its center and became a ring.

FLYING DISC AERODYNAMICS

As a flying disc enthusiast you have no doubt observed the importance of spin. It stabilizes the flight, enhances float, and extends distance. The quality of spin sepatates great throwers from just good ones. But spin severely complicates the task of the disc de-

In order for any flying object to stay airborne it must be balanced. In airplane design, balance is achieved by properly locating the wing and tail relative to the center of gravity (weight) of the plane. Also, the pilot can make small changes in balance by adjusting the angle of the control surfaces. For example if he adjusts the elevator surface downward, the tail develops more lift and the plane is pitched up at the tail and down at the nose. But the luxuries of tails, control surfaces and pilots are not available in a disc.

In a spinning object, once every revolution the nose becomes the tail and tail becomes the nose, etc. There are no control surfaces or pilots, but the laws of physics still demand balance to sustain flight. The necessity for balance completely dominates the design process. Without it the disc is useless.

cut it into a disc. Now launch it like a slower than the balanced speed it would model glider without spin. The front roll to the side like a flat disc. When will immediately pitch upwards and it thrown faster than the balance speed, it will begin to tumble end over end. This would roll to the opposite side. conventional disc. The hard part was to is because thin airfoils develop most of The cause of this speed sensitivity their lift near the leading edge. This is that the angle of attack of the puts the center of lift ahead of the

center of gravity (which is at the center of the disc) and causes the upward pitch.

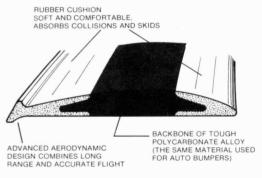
Now launch the disc with spin (like frisbee) and observe that it immediately rolls to one side and falls to the ground. You have just witnessed the effect of gyroscopic precession, which causes the axis of a spinning mass to rotate at a right angle to applied torque. In the case of the cardboard disc, the applied torque is caused by the lift at the leading edge and precession caused this lift to be shifted to the side. The side which lifts is the side that the leading edge is rotating towards, for example the right side for a right-handed, backhand

The only way to keep a spinning disc from rolling to its side is to balance the center of aerodynamic lift at the center of the disc. This eliminates torque and thus eliminates gyroscopic precession. Sounds simple enough, doesn't it? It took about eight years of intensive research to achieve it in a thin low drag shape.

A conventional throwing disc, such as the Frisbee, gets this vital balance from its thick rim. But the price of the rim is lots of aerodynamic drag. Drag rapidly slows the flight and limits distance. Imagine an airplane with vertical walls at the leading and trailing edges. The walls would act as air brakes and drastically increase drag. The rim of a frisbee causes the same effect, but without the rim the disc would be unbalanced and rapidly roll over on its side.

EARLY RESEARCH WITH THIN DISCS

For many years, whenever I played with a Frisbee I was conscious of the tremendous drag caused by its rim. I could see the toll of this drag in every flight. Finally in the mid 1970's I started to work on the task of developing a thin, low drag disc.



I began with experiments on rimless shallow cones, like a nearly flat Chinese Coolie hat. I found that these "hats" were balanced at a single flight speed. The greater the angle of the hat, the slower the speed at which balance Find an old piece of cardboard and was achieved. When the hat was flown

continued on page 20



CONTINUED FROM PAGE 19

flying disc (or hat) varies with speed. At low speed the disc is sinking rapidly and this angle is large. At high speed, with little or no sink, the angle of attack is very low. The center of aerodynamic lift was very dependent on the angle of attack. Only when the angle of attack caused the center of lift to be at the center of gravity, would the disc fly straight.

I continued to pursue the design of thin discs for several years. My best designs were about half the height of a Frisbee and would fly about fifty percent farther, but they still had some speed sensitivity and thus weren't as stable. Besides, I was shooting for a lot more improvement than fifty percent.

FLYING RINGS

In the winter of 1978, I designed my first flying ring. It was about a foot in diameter and weighed 70 grams. On its first flight with only a gentle throw, it flew straight and level for about fifty yards and bounced into a tree. It was the most beautiful flight I had ever seen. The ring looked as if it was supported by an invisible sheet of ice. I was absolutely euphoric.

I spent the next month perfecting the airfoil. The following year I licensed the design to Parker Brothers, who produced it and sold it under the name SKYRO. In the summer of 1980 Tom McRann, a very talented Frisbee thrower, threw one 286 yards —— a distance measured and certified by a state licensed surveyor using a laser distance meter. The Guinness Book of World Records recognized his feat as "the longest throw of any inert heavier than

air object." That was the record that Scott Zimmerman was to break with a 1,125 foot AEROBIE throw.

THE LAST LEAP, The AEROBIE

You might think that I was satisfied with all of this, but engineers are tough to please. In fact the SKYRO, like my discs, was speed sensitive. It was difficult for the average person to throw a SKYRO straight and accurately. So I set to work to make it better. My goal was to completely eliminate speed sensitivity. I wanted it to fly perfectly straight at any speed.

Several years and hundreds of models passed. Then early in 1984 I was simulating the flight of rings in a computer and concocted an equation for the distribution of the aerodynamic lift over the ring. The equation said in effect, "Alan, if you can design a ring that has this specified lift distribution, it will fly perfectly straight at all speeds." It was an exciting concept. I had no idea that such lift distribution was possible, but it gave me a definite goal to aim for. In the next few months I made four models, each having substantial theoretical promise of delivering the desired lift distribution. To my disappointment, none were any better than the SKYRO. Then, on the fifth successful ring that a small rim around the outer edge. The rim reduced the lift in the front half of the ring while increasing the lift for the rear half. This is exactly what my equation demanded for balanced flight. It was incredibly stable over a wide range of speeds and throwing conditions

I then embarked on building and test-flying a series twelve of models to optimize the rim. Some of these models were better, others worse, than the original. The best of the lot combined great stability and long flights. It became the prototype AEROBIE.

New Products



he APPLE, perhaps the most uniquely named disc, has arrived. The latest production is designed by Dave Dunipace of Innova/Champion discs in Rosemead, California.

disappointment, none were any better than the SKYRO. Then, on the fifth attempt I hit the jackpot. The diameter, and tips the scale at 160 successful ring that a small rim around the outer edge. The rim reduced the Discraft Ultra-Star is 10.75 inches lift in the front half of the ring while increasing the lift for the rear half. The first Innova disc to have the sis exactly what my equation concentric ridges, or "rings" on top, demanded for balanced flight. It was incredibly stable over a wide range of speeds and throwing conditions

Intended for use as an Ultimate disc, the Apple is 10.25 inches in diameter, and tips the scale at 160 started. The scale at 160 scarted is 10.75 inches in diameter, and tips the scale at 160 scarted. The scale at 160 scarted is 10.75 inches in diameter, and tips the scale at 160 scarted. The scale at 160 scarted is 10.75 inches in diameter, and tips the scale at 160 scarted is 10.75 inches in diameter, and tips the scale at 160 scarted is 10.75 inches across and weighs 175 grams). The Apple is the first Innova disc to have concentric ridges, or "rings" on top, demanded for balanced flight. It was increased in the scarted is 10.75 inches across and weighs 175 grams). The Apple is the first Innova disc to have concentric ridges, or "rings" on top, demanded for balanced flight. It was increased in the scarted is 10.75 inches in diameter, and tips the scale at 160 scarted is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams). The Apple is 10.75 inches across and weighs 175 grams).

CONTINUED ON PAGE 22

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BUD LIGHT PRESENTS THE 10th ANNUAL VIRGINIA STATE FRISBEE CHAMPIONSHIPS

The tenth annual Virginia State Championship Frisbee Tournament has come and gone. After the spring rains of the past five this event was graced by beautiful weather except for a cameo appearance of a ten minute shower.Some one hundred and twenty competitors played. They came from as far away as Michigan, Florida, Massachusetts and even County Clare, Ireland. With Bud Light as a sponsor the tournament was able to offer a variety of discs and shirts for sale. They threw a major party with live music, and we were still able to donate around five hundred dollars to Big Brothers-Big Sisters and award fifteen hundred in cash and prizes.

There was no opportubuty for local players to dominate the all new golf course. It was as new to Fredericksburg players as to anyone visiting. Powered by two aces, Dave Griffin managed to post a five stroke lead in two rounds over local club president Randy Lahm and former overall winner Rick Swyers. Two local womens division players Sandy Steger and Erin Hart came in second and third to Mandy Carreiro of Gainsville Florida winning score. Dave Griffin has won the golf event here the last two years. Next year he will be trying to tie Scott Zimmermans three year consecutive Virginia State golf title.

Similarly, Randy Lahm, this years overall winner, has won distance the last two years and threatens to tie Michael "Cap'nSnap" Congers unparalelled feat of three consecutive victories. Screaming Jack Cooksey's 142.3 meter throw was merely 2.7 meters short of Randy's best mark, and Pryor Hendrix threw 136.5 meters for third place. Anyone remember when Scott Zimmerman and Cap'nSnap threw over the fence and across the street which bordered the not quite long enough distance field? Mandy Carreiro's 274 foot throw edged Erin Hart by 10 feet to take first. All the men mentioned in this paragraph are former overall winners of the Virginia States.

After a ten year perfect attendance record and good overall play, Phil Pollack won the M.T.A. competition. Constantly varying winds plagued the players and it required experience and conposure as the wind changed drastically from prelims to semi's to

finals. Indeed the often swirling winds changed moment to moment. Harvey Brandt took second place and Karl Cook followed in third. Sandy Steger's consistent throws rewarded her with an 8.2 second catch. Mandy Carreiro followed a half second behind with a 7.7 throw.

For the first time in many years freestyle was held outdoors. But indoors or out the pair of Ted Oberhaus and Allen "Flash" Flood excel. They gave an untouched record of three consecutive victories in freestyle. The last two years were inside a gymnasium. This year on the breezy field they compiled a stunning routine with only two drops. Kevin Breslin and Richard Katz improved from sixth place after the prlims to take second in the finals. And the Threesome of Paul Hobson, Bill Martin and the former overall champion Eric Wootten put on a great show for third place.

And so this large and oldest of annual tournaments continues to thrive. Despite Pryor Hendrix and Harvey Brandt and Dale Crawfords excellent overall play, coming in second, third and forth, one tradition remains. None of our many out of state visitors have ever won the overall championship. The winner is truly the Virginia State Champion. The coveted traveling Hugh Lowery Plaque, which goes to the overall champion named for the first winner of the tournament in 1977 has never called any state but Virginia it's home. This year it is back in Fredericksburg with overall winner Randy Lahm.

Mandy Carreiro traveled from Florida take the womens overall division. Closely behind her came two local competitors Erin Hart and Sandy Steger. And of course there was the stellar display of endurance, speed and etiquette by Kent Birkle, to move through two rounds and the finals to win the Super-Pro chug, which is the art of chugging a 24 ounce beer out of a Super-Pro in 5.8 seconds. Wow! Which brings us back to the Bud Light sponsorship that helped so much to make the 10th Virginia State tounament a memorable and successful event. Hopefully the world of east coast frisbee can benefit from their patronage as much as the west coast has.

by Erin Hart



MENS OVERALL

1.RANDY LAHM
2.PRYOR HENDRIX
3.HARVEY BRANDT
4.DALE CRAMFORD
5.ERIC WOOTTEN
6.JACK COOKSEY
7.RON ROBILLARD
8.JOE MELA
9.DAVE GRIFPIN

FREDERICKSBURG, VA
ARLINGTON, VA
CENTERVILLE, VA
CONSHOHOCKEN, PA
W. HAMPTON BCH,NY
RICHMOND, VA
BURKE, VA
DOVER, DELEWARE
ANNANDALE, VA
RICHMOND, VA

MENS GOLF

1.DAVE GRIFFEN 2.RANDY LAHM 99 ANNANDALE, VA 104 FREDERICKSBURG, VA 3.RICK SWYERS 4.DALE CRAWFORD 104 RICHMOND, VA CONSHOHOCKEN . PA 107 5. CARLTON HOWARD 109 RALEIGH, NC 109 WINCHESTER, VA 6. HUNT HYDE 109 W. HAMPTON BCH, 109 CENTERVILLE, VA 7.ERIC WOOTTEN 8.HARVEY BRANDT HAMPTON BCH, NY 9. WAYNE ZINC 10. ALLEN BEAVER 110 VIRGINIA BCH, VA

MENS MTA

1. PHIL POLLACK 9.4 RICHMOND, VA
2. HARVEY BRANDT 9.0 CENTERVILLE, VA
3. KARL COOK 8.4 WASHINGTON, DC.
4. RANDY LAHM 8.2 PREDERICKSBURG, VA
5. JOE MELA 7.0 DOVER, DELEWARE

MENS DISTANCE

1. RANDY LAHM 145M FREDERICKBURG, VA 2. JACK COOKSEY 142.3M RICHMOND, VA 3. PRYOR HENDRIX 136.5M ARLINGTON, VA 4. HARVEY BRANDT 131.4M CENTERVILLE, VA 5. RON ROBILLARD 128.1 BURKE, VA

MENS FREESTYLE

1. TED OBERHAUS TERRYTOWN, NY ALLEN "FLASH" FLOOD LARCHMONTN, NY 2. KEVIN BRESLIN LANESDALE, PA RICHARD KATZ LANESDALE, PA LANESDALE, PA LANESDALE, PA LANESDALE, PA LANESDALE, PA LANESDALE, PA LANESDALE, VA BILL MARTIN CHAROLETTE, NC LANESDER, VA BILL MARTIN CHAROLETTE, NC LANESDALE, PRYOR HENDRIX ARLINGTON, VA LANESDALE, PRYOR HENDRIX ARLINGTON, VA

DALE CRAMPORD CONSHOHOCKEN, PA.

TRACY BORUSIEWICZ CONSHOHOCKERN, PA.

JACK COOKSEY RICHMOND, VA

JACK COOKSEY RICHMOND, VA 6. ED SHEMINGER HARTFORD, CT RON ROBILLARD BURKE VA

WOMENS OVERALL

1. MANDY CARREIRO GAINSVILLE. FL 2. ERIN HART FREDERICKSBURG, PA. 3. SANDY STEGER FREDERICKSBURG, PA. 4. JUDY ROBBINS BOSTON, MA. 5. JUDY CARNIVALINO JOHNSTOWN, PA.

6. LORI DANIELS CHICAGO, IL 7. BONNIE WOOTTEN WEST HAMPTON, NY 8. MARYANNE JERROW MONTE CLARE, PA.

9. DORTHYE SEWARD RICHMOND, VA 10. LINDA THORTON FREDERICKSBURG, VA. 11. ROXANDE FLICK NAZARATH, PA. 12. JANE HANDLESMAN ARLINGTON, VA.

WOMENS GOLF

1. MANDY CARREIRO GAINSEVILE, FL.
2. SANDY STEGER FREERECKSBURG, VA.
3. ERIN HART FREDERICKSBURG, VA.
4. JUDY CARNEVALINO JOHNSTOWN, PA.

WOMENS MTA

1. SANDY STEGER FREDERICKSBURG, VA.
2. MANDY CARREIRO GAINSEVILE, FL.
3. JUDY ROBBINS BOSTON, MA.
4. ERIN HART FREDERICKSBURG, VA.

WOMENS DISTANCE

1.MANDY CARREIRO 275.7ft GAINSEVLE, FL. 2.ERIN HART 263ft FREDERICKSBURG, VA. 3.BONNIE WOOTTEN 214ft WEST HAMPTON, NY 4.JUDY CARNEVALINO 176.6 JOHNSTOWN, PA.

WOMENS FREESTYLE

 MANDY CARREIRO GAINSEVILE, PL. JUDY ROBBINS BOSTON, MA.
 LORI DANIELS CHICAGO, IL

UPCOMING

PDGA TOUR ST. THOMAS, ONT BOB HARRIS (519) 631-5998 JUNE 21-22 PDGA TOUR AUG. 23-24 PDGA TOUR HUNTSVILLE, AL GEORGE COFFIN (205)533-1445 TULSA, OK KEN GIBSON (918)584-2056 SENIOR WORLD FLYING DISC CHAMPIONSHIPS MINNEAPOLIS, MN PAUL THOMPSEN (612)377-8348 JUNE 21-22 PDGA TOUR
TENKILLER LAKE, OK
ROY CULBERTSON (405)364-7991 JULY 15-19 DELAWARE DISC GOLF AUG. 24 KIRKWOOD, DE RICH HUGHES (301)834-8040 U.S. OPEN PRISBEE DISC PBGA TOUR IRVING, TX GLENN HALE (214)254-7632 JULY 19 DISC GOLF AUG. 30-31 CHAMPIONSHIP (ALL EVENTS) LA MIRADA, CA PHILADELPHIA, PA DARBY WILLIAMEE (215)933-5123 DAN MANGONE (714)522-2202 PDGA TOUR MANASSAS, VA MICHAEL CONGER (301) 651-0550 PDGA TOUR SEPT. 5-7 PDGA TOUR PORTLAND, OR JERRY MILLER (503)761-9286 DAVID KING (918)622-4472 PDGA TOUR COLUMBIA, MO ALEX DADANT (314)874-2981 JULY 19-20 SEPT. 6-7 PDGA TOUR COLUMBIA, MO RICK ROTHSTEIN (314)874-2981 JUNE 28-29 HUNTINGTON, W. VA JOHNY SIAS (304)523-4167 1986 PDGA CHAMPIONSHIPS PDGA TOUR TACOMA, WA DON FOGLE (206)752-5508 JULY 23-26 SEPT 6-7 DELAWARE DISC GOLF CHARLOTTE, NC RUSSELL SCHWARTZ (704)375-9516 JUNE 29 LEWES, DE RICH HUGHES (301)834-8040 DELAWARE DISC GOLP JULY 27 WORLD PEACE TOURS SEPT 6-21 WFA WORLD FOOTBAG CHAMPIONSHIPS GOLDEN, CO JULY ? RICH HUGHES (301)834-8040 WORLD PEACE TOURS (619)456-2884 WPA (303)278-9797 PDGA TOUR GRAND RAPIDS, MI CHRIS KARP, (616)949-7248 AUGUST 2 PDGA TOUR STILLWATER, OK SEPT 13-14 WPA NATIONAL TRAINING CAMP JULY 3 LEW SATTERFIELD (405) 743-0366 GOLDEN, CO WPA (303)278-9797 18 AUGUST 3-4 PDGA TOUR TULSA, OK MIKE STANLEY (918)627-0080 PDGA TOUR URBANDALE, IA KIM STEELE (513) 278-0335 ROCKY MTN. REG. FOOTBAG CHAMPIONSHIPS FT. COLLINS, CO SCOTT CLEERE (303)224-9841 JULY? OCT WORLD PEACE TOURS PDGA TOUR MEMPHIS, TN DARRELL LYNN (910) 327-9176 AUG. 3-19 OCT 4-5 JULY 4-6 PDGA TOUR TULSA, OK DAVID KING (918)622-3444 WORLD PEACE TOURS (619)456-2884 AUG. 9 PDGA TOUR OCT 4-5 PDGA TOUR TORONTO, ONT PHIL PALUMBO (416)621-6308 NEW BRUNSWOCK, NJ DAN DOYLE (201)545-8928 JULY 5-6 MONTICELLO, KY MARK STOTTLEMEYER (502) 651-8371 DELAWARE DISC GOLF AUG. 10 OCT 4-5 PDGA TOUR JULY 5-20 WORLD PEACE TOURS WILMINGTON, DE RICH HUGHES (301)834-8040 IRVING, TX BILL SUMRALL (214) 368-2842 CHINA WORLD PEACE TOURS (619)456-2884 LA MIRADA OPEN (GOLF) AUG. 16-17 OCT 4-5 PDGA TOUR LA MIRADA, CA DAN MANGONE (714)522-2202 TORONTO, ONT PHIL PALUMBO (416) 621-6308 JULY 12-13 PDGA TOUR PLORENCE, AL BOB LEWIS (205) 764-2317 PDGA TOUR OKLAHOMA CITY, OK TIM WIEDERKEHR (405)943-2339 AUG. 16-17 OCT 5-21 WORLD PEACE TOURS JULY 13 RUSSIA WORLD PEACE TOURS (619) 456-2884 MINNEAPOLIS, MN JOE FEIDT (612) 823-1178 GUTS WAR AND DISC GOLF KNAUERTOWN, PA JIM POWERS (215)873-0559 OCT 11-12 PDGA TOUR DELAWARE DISC GOLF 12 BARRY GILL (615) 893-9402 WILMINGTON, DE RICH HUGHES (301) 834-8040 CT AUG. 23-24 PDGA TOUR TULSA, OK PDGA TOUR STEPHENS CITY, VA OCT 12 JULY 13-14 PDGA TOUR



continued from page

felt that the rings would be more of the long standing tradition of using accompodating where a surface for the 165 gram Wham-O discs). gripping was concerned.

such as lime, cherry, grape, orange and people, especially if they are looking blueberry, the Apple has a rim configuration more conducive to the to throw.

forehand grip than other discs used for Ultimate.

While the discs' stable flight, along with its other properties, make it quite suitable for use in Ultimate, it is likely to meet with some resistance success of previous Innova discs, it was from the Ultimate establishment (because

The smaller rim and lighter weight Coming in a variety of tasty colors should also appeal to younger or smaller for a disc that's easy and comfortable BY RICK LEBEAU

FLYING DISC Change of Address DATE NEW ADDRESS IN EFFECT. Name Address Apt. No. State THANKS IDISC P.O. BOX 99118 • SAN DIEGO, CA 92109

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continued from page 12

left-to-right, but it's actually blowing opposite, it can make a disater out of your "usual" shot. Don't just throw an automatic, pay attention to wind direction and velocity and adjust accordingly.

9. Blaming instead of taking responsibility: Unless we take responsibility for our mistakes, we can't correct or improve. Don't try to find an excuse for failure, find a way to succeed.

10. Playing more than one shot at a time-split decision: You can't expect to succeed without a clear idea of the shot you want. Decide exactly what you want the disc to do before you start to shoot. A vaque or split idea will get you vague results even if you send it with a prayer.

Your list of ten often made mistakes might be different from mine, but making your own mistake list along with correction methods might help improve your disc golf game.

This ends part one of a three part series of disc-golf related articles by the accomplished player/disc designer Dave Dunipace. Be sure to catch part two: "Choosing a Putting Style" and part three: "Intensity" in upcoming issues of Flying Disc Illustrated. ED



Taing Xy Ping had been practicing with American Frisbee disc players for just three minutes when he cranked this sidearm at the LIFE Magazine photographer in Beijing's Tian An Men Square. You can visit him in 1986!

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