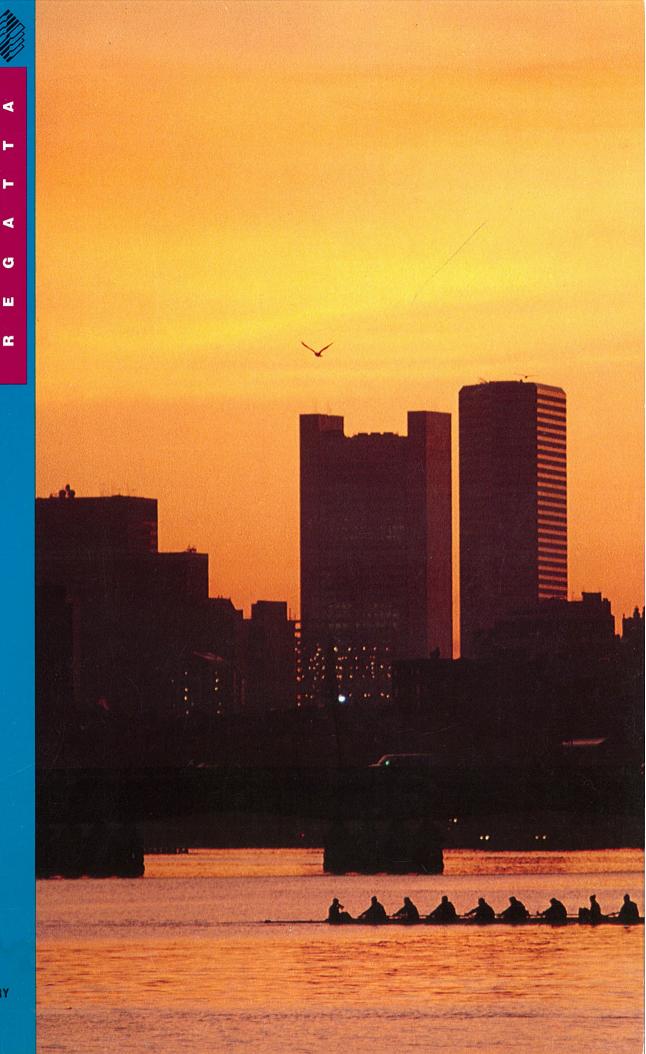
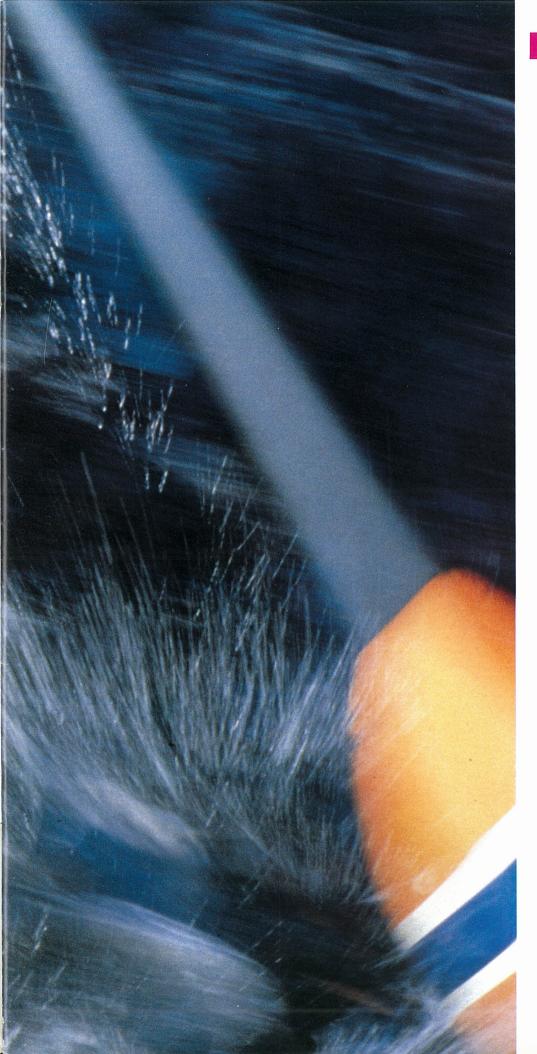
REGATTA

TWENTY-FIFTH ANNIVERSARY October 21, 1990

\$2







The 25th Anniversary

Events and Starting Times

1	Club Singles	8:30 am
2	Club Fours	8:55 am
3	Club Eights	9:25 am
4	Veteran Singles	9:55 am
5	Youth Fours	10:25 am
6	Grand Master Singles	10:55 am
7	Youth Eights	11:20 am
8	Senior Master Singles	12:00 noor
9	Lightweight Fours	12:30 pm
10	Master Singles	1:00 pm
11	Lightweight Eights	1:30 pm
12	Lightweight Singles	1:55 pm
13	Championship Doubles	2:25 pm
14	Championship Fours	2:55 pm
15	Championship Singles	3:25 pm
16	Championship Eights	4:00 pm

The hiatus between men's & women's divisions within events will be two minutes in events 1 - 12, and five minutes in events 13 - 16.

Event Descriptions

Youth Persons under 20 years old, including coxswains.

Club Limited to persons who haven't achieved a specified level of performance since October 1st of the preceeding calendar year.

Master (singles) At least 30 years old.

Master (crew see events 13 and 14) Rowers' ages average at least

40 years- no one, except cox, under 30 years old.

Grand Master At least 50 years old.

Veteran At least 60 years old, 8 second per year over 60 handicap.

Lightweight (singles) Max. men: 160 lbs., Max. women: 130 lbs.

Lightweight (crew) Men- average weight not to exceed 160 lbs., no one over 170 lbs. Women- average weight not to exceed 130 lbs., no one over 138 lbs.

Championship Open (unrestricted).

Men's Divisions Male rowers and scullers only.

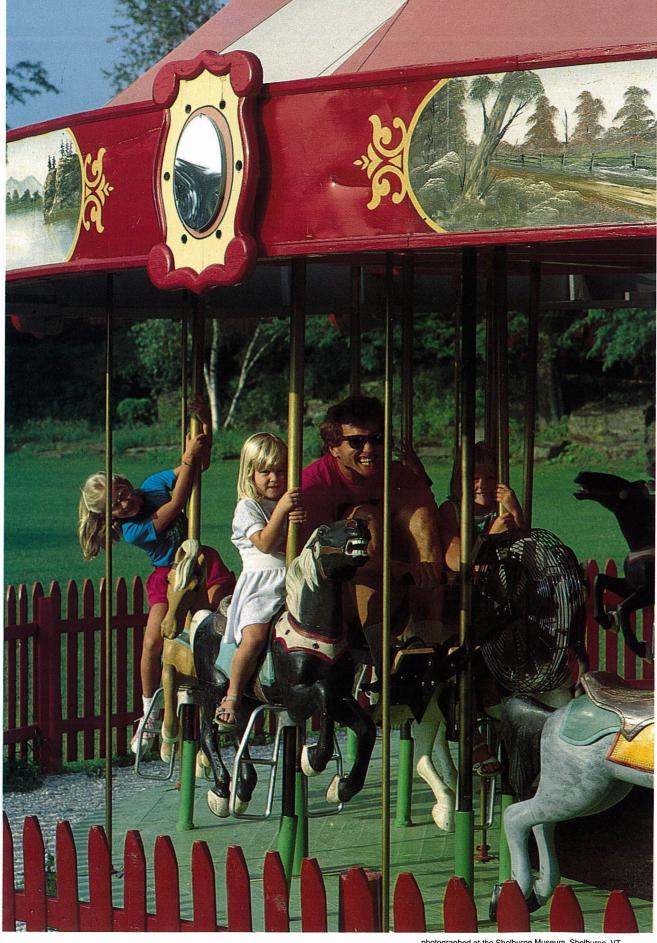
Women's Divisions Female rowers and

scullers only.

Coxswains: May be either sex, but must have sufficient weight with them in the boat to weigh at least 100 lbs. during entire race.

Fours and Eights Sweep-oared, with coxswain. Singles and Doubles Sculling, no coxswain.





Concept II Rowing Ergometer
RR1 BOX 1100 MORRISVILLE, VT 05661-9727 USA (800) 245-5676

The Commonwealth of Massachusetts

By His Excellency

MICHAEL S. DUKAKIS

Governor

A PROCLAMATION WHEREAS: WHEREAS:

On October 21, 1990, the 25th anniversary of the Head-of-the-Charles Regatta will take place on the

The first race in 1965, when 90 boats competed, was an instant success with the public and rowers alike and has since grown to become the largest single day rowing event in the world; and

The regatta brings rowers from all around the world to Boston for a full day of fun and competition;

This year, over 4,000 rowers from England, Peru, Lithuania, Prance, the United States and Canada NOW, THEREFORE, I, MICHAEL S. DUKAKIS, Governor of the Commonwealth of Massachusetts, do hereby proclaim

and urge the citizens of the Commonwealth to take cognizance of this event and to participate

Given at the Executive Chamber in Boston, this third day of Cotober, one thousand nine hundred and ninety and of the Judged and fifteenth.

MICHAEL S. DOKAKIS

By His Excellency the Governor

WHEREAS:

WHEREAS:

Secretary of the Commonwealth

GOD SAVE THE COMMONWEALTH OF MASSACHUSETTS

Welcome to the 26th Annual Head-of-the-Charles. Regatta.

On behalf of all the volunteers and staff of the Head-of-the-Charles® Regatta **Welcome.**

Our organizing committee has worked long and hard to make this Regatta a success:

- A success for the 4000 rowers on the water;
- A success for the spectating throngs numbering nearly a quarter of a million;
- A success for our Boston and Cambridge neighbors;
- · And a success for rowing.

It hasn't been easy. Our Massachusetts economy continues to suffer. Once easily sought support from traditional sources has brought about the introduction this year of solid corporate involvement and support. For this, we give our thanks to the leadership and vision of the Regatta Trustees in providing this support.

Groundwork to produce this Regatta began more than a year ago. Plans to produce top-notch event visibility were laid and executed. A higher profile in terms of international status was examined. This year's participation of "Seoul-seasoned" crews from far-off lands demonstrates the success of this planning.

This year's 26th rowing of the "Autumn Classic" showcases crews from Lithuania, South America, Canada and Europe. With American crews from coast-to-coast in each event, the day-long racing promises to be exciting and colorful.

The talents of our volunteers are enormous, and without more than 400 friends, this boat race would never get off the ground (or on the water). Work from artists, doctors, lawyers, accountants, designers, builders, marketers, teachers, engineers, scientists, researchers, writers, fundraisers, pilots, pressmen, registrars, stockbrokers, salesmen, architects, students, recruiters, planners and trouble shooters all comes together - miraculously - to produce this event - for you. We sure hope you like it.

A great deal of work and effort from the Metropolitan District Commission (upon whose parkland the Regatta is held) contributes to making this Regatta the great success it has become. The MDC makes watching the Regatta a safe, fun and pleasurable way to spend a day with a quarter of a million of your closests friends. Thank an Officer today - he or she might be one to help you get home safely!

Lastly, plans for the 1991 Regatta are beginning. If you like what you see and want more of it, drop us a line and let us know. If you want to point out a problem to us, please do. This Regatta will never be all things to all people - we just hope it continues to be the best Regatta you'll ever find.

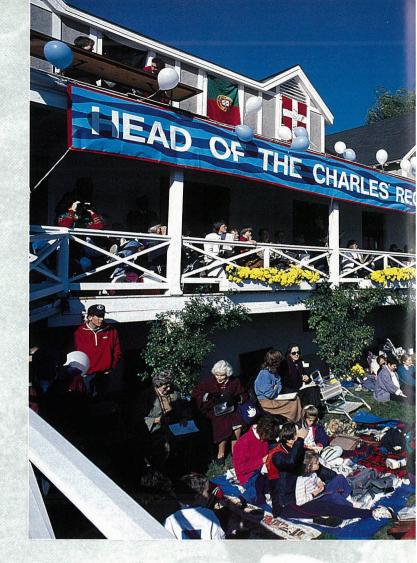
Please have a nice day and come back next year, Oct. 20, 1991.

Thank you,

J.F. Romain, Chairman

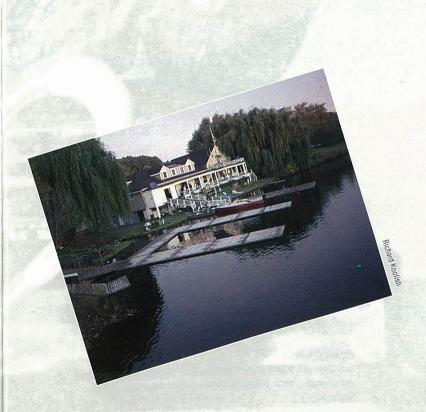
Regatta Committee

Bill Becklean
Chris Boit
Jack Frailey
Peter Andre de la Porte
John Lambert
Donna Smith
Steve Smoot
D'Arcy MacMahon, Executive Director, Pro Tem









Dear Friends.

Welcome to a New England tradition - The 26th Annual Head-of-the-Charles Regatta. As the Metropolitan District Commissioner, I am honored to host such a spectacular display of sportsmanship and athletic prowess on the Charles River.

Each year thousands of rowers from the world over have returned to the scenic banks of the Charles River to participate in this one-of-a-kind sporting event. The Head-of-the-Charles Regatta is the largest single rowing event in the world. Every year the Regatta offers intense competition, fascinating strategy and good sportsmanship as nearly 4,000 rowers compete on the Charles.

Many thanks and much appreciation must go to the Head-of-the-Charles Regatta Committee for supporting the activities and the efforts of the MDC throughtout event. It is because of the hard work and dedication of many Regatta Committee volunteers that this event is a success year after year.

I must also acknowledge those dedicated state employees who pull together to assist in this championship event which we eagerly anticipate every fall. Boston is a noted hub of rich natural resources, with our historic sites and honorable educational institutions, our prominent hospitals and our world-class sporting events, such as this world reknowned regatta. And without the continued support of my own staff, it would be nearly impossible to carry on this time-honored rowing tradition.

For the last three years, the MDC launched a massive public education campaign with the help of the Head-of-the-Charles Regatta Committee, to reach out to colleges, universities, alumni and community groups in an effort to ensure the sportsman-like conduct of the spectators of years past. The number of MetroPolice was increased and officers made the most commendable of efforts in preserving the riverbanks as a pleasurable and family-like atmosphere.

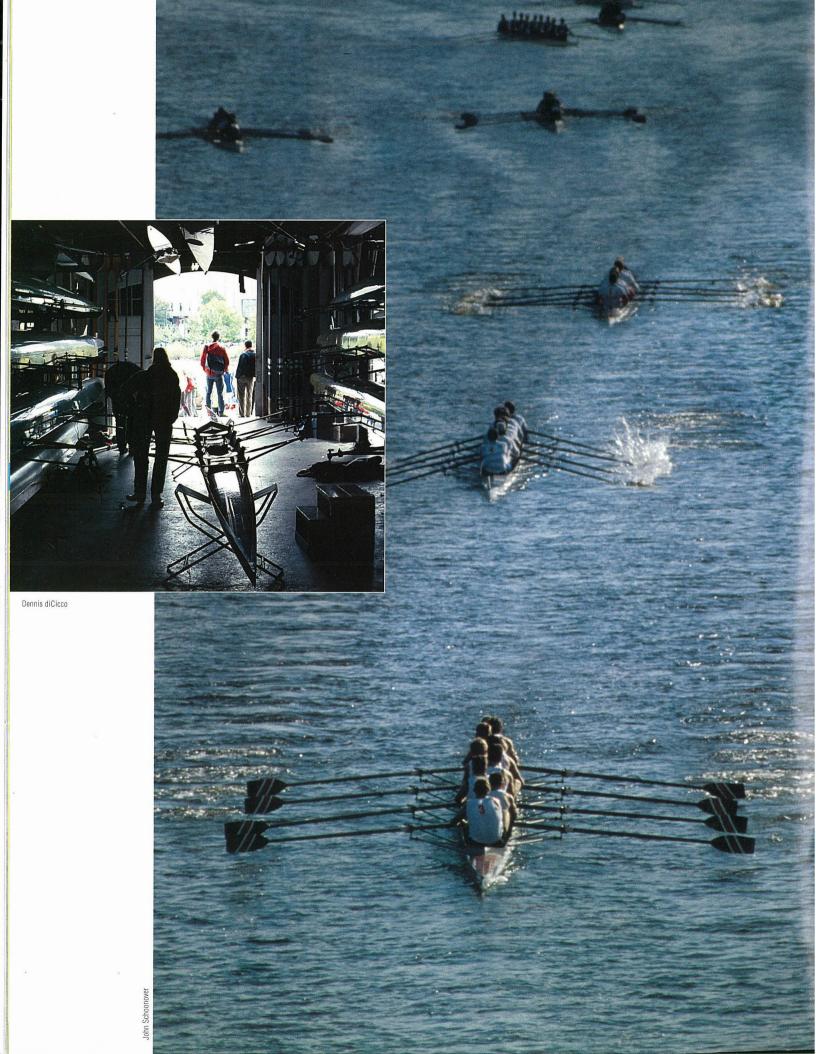
This year the MDC and MetroPolice will continue crowd control and strict enforcement of rules, including our no alcohol rule, to ensure the enjoyment and safety of the thousands of people who gather to take part in this wonderful athletic competition. As always, our clean up crew will diligently work through out the night to restore the riverbanks to their original splendor.

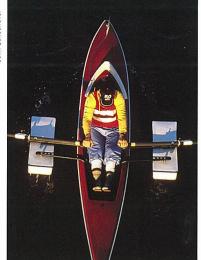
We at the MDC are privileged to be part of this world-class event, but we ask your help and cooperation in maintaining this day in the original spirit that it was intended, and as result making the Regatta an enjoyable day for all.

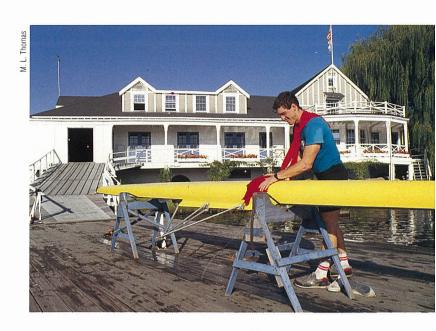
Sincerely, M. Ilyas Bhatti, Metropolitan District Commission



Paul Revere Crew Point Trophy Awarded at the conclusion of the Regatta to the institution whose crews have complied the highest aggregate point total based on the following formula for each crew: 100 ÷ [1+50 (c/w-1)] where c = crew's time and w = winning time Note: Not affected by single sculling, events all of which involve competition between individuals, not institutions. CAMBRIDGE 25th Anniversary Dinner Cambridge Marriott Host Hotel of the Regatta Central Square Western Avenue Massachuseits Avenue River Street Memorial Drive **Riverside Boat Club Magazine Beach** Vassar Street CHARLES RIVER **B.U. Boathouse MIT Boathouse** START Beacon Street Commonwealth Avenue B.U. Bridge Storrow Drive Kenmore Square **BOSTON** FOURS EIGHTS Eight-oared boats have eight Four-oared boats have four rowers, each with one oar, and rowers, each with one oar and a they have a coxswain. The boat is coxswain to steer and cajole about 60 feet long and weighs them. about 230 pounds.



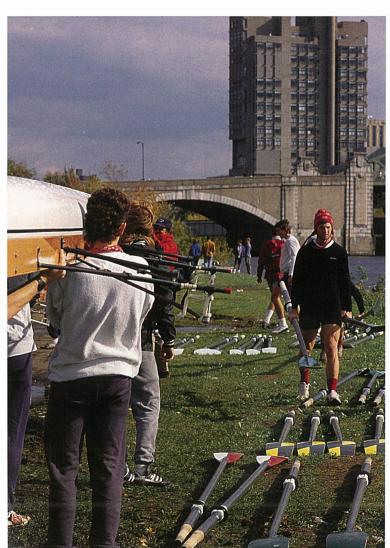




Racing forward

LOOKING BACK

The 25th Anniversary



M. L. Thomas

Twenty-five years ago a small number of visionary members of the Cambridge Boat Club came up with an idea that has since piqued the interest of oarsmen everywhere, The Head-of-the-Charles Regatta.

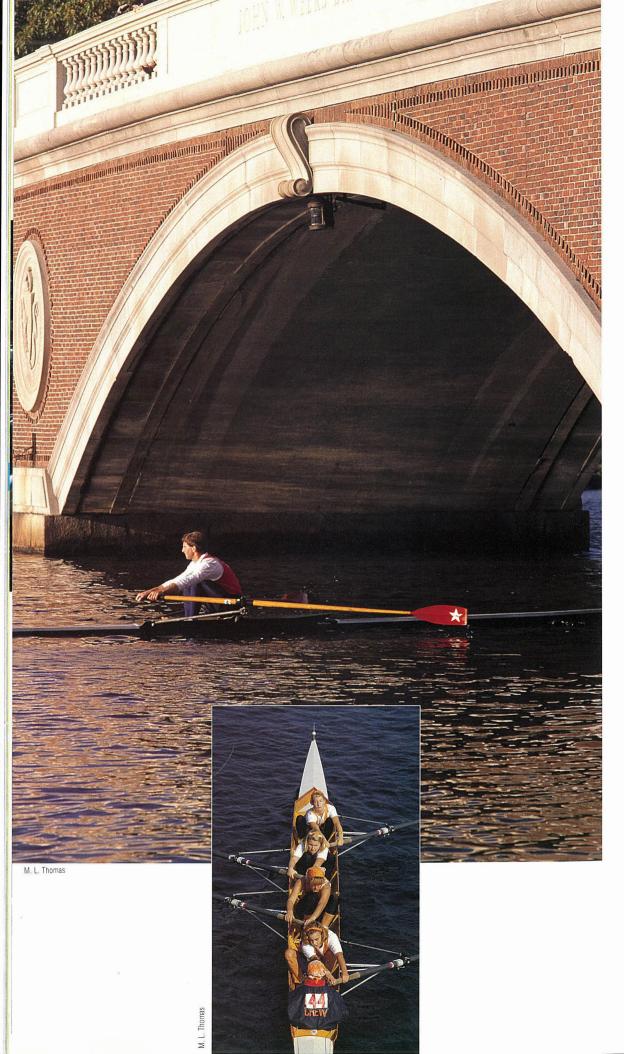
The founding fathers, Jerry Olrich, Ernie Arlett, Howard McIntyre, D'Arcy MacMahon, Jack Vincent and Zeus Wade had the audacity to proclaim the event on October 16, 1965, to be "The First Annual Head-of-the Charles Regatta."

"I don't think any of us had the slightest doubt that there would be many more Heads to come even before the first one," said Jerry Olrich, one of the event's original planners.

"It was destined to become a classic," co-founder D'Arcy MacMahon adds only partly in jest.

As the Head-of-the-Charles prepares to celebrate its 25th anniversary, few will dispute its status as the largest single-day regatta in the world. The prominence of the Head-of-the-Charles is such that it is simply referred to throughout North America as "The Head."

The idea of mixing many categories of rowing- single sculls, fours, eights, men, women, school children, octogenarians, Olympians - in a single-day race has since been widely copied throughout North America. But the Head-of-the-Charles remains the mecca, not just for participants-but for spectators as well. Although other races can try to approximate the Head's boats and



rowers, the hordes that line the riverside set Boston's renowned regatta apart. It's a happening. Like the Kentucky Derby, Indianapolis 500, World Series or Super Bowl, you have got to see and be seen at the Head-of-the-Charles at least once in your lifetime. Each fall, thousands of people manage to get to the banks of the Charles, where seating on the grass is free and plentiful.

It wasn't always that way. After publicizing the first race in 1965, organizers were shocked at the response. Instead of the 1,000 they had hoped to get, there were only two entries when the deadline was reached. (Compared to approximately 4,000 competitors this year)

"Our club president, Dwight Andrews, went to Davis Taylor (retired publisher of the Globe), who loves everything that floats, and the Globe sponsored the regatta the first two years. They got us on our feet and then turned us loose again on our own," says Dr. Howard McIntyre, who was chairman of the Cambridge Boat Club's rowing committee at the time.

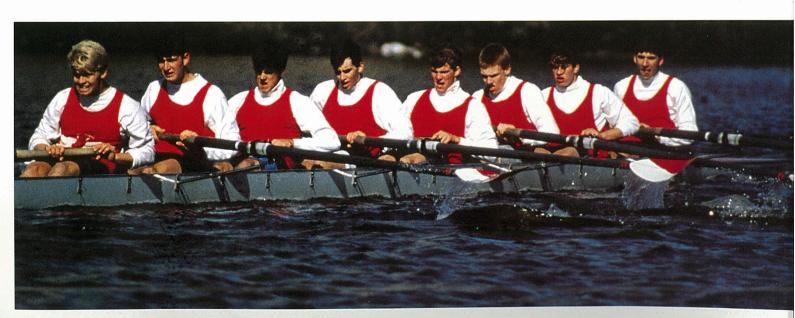
The Boat Club Committee and friends- comprising a volunteer force of about 400- continue to run the regatta, with modest entry fees and the sale of T-shirts, posters, and programs offsetting most of the cost.

The regatta's continuity stems from the fact that some of the same people who ran the first Head are still active- and some still are competitors as well. And unlike the Marathon, the Head has

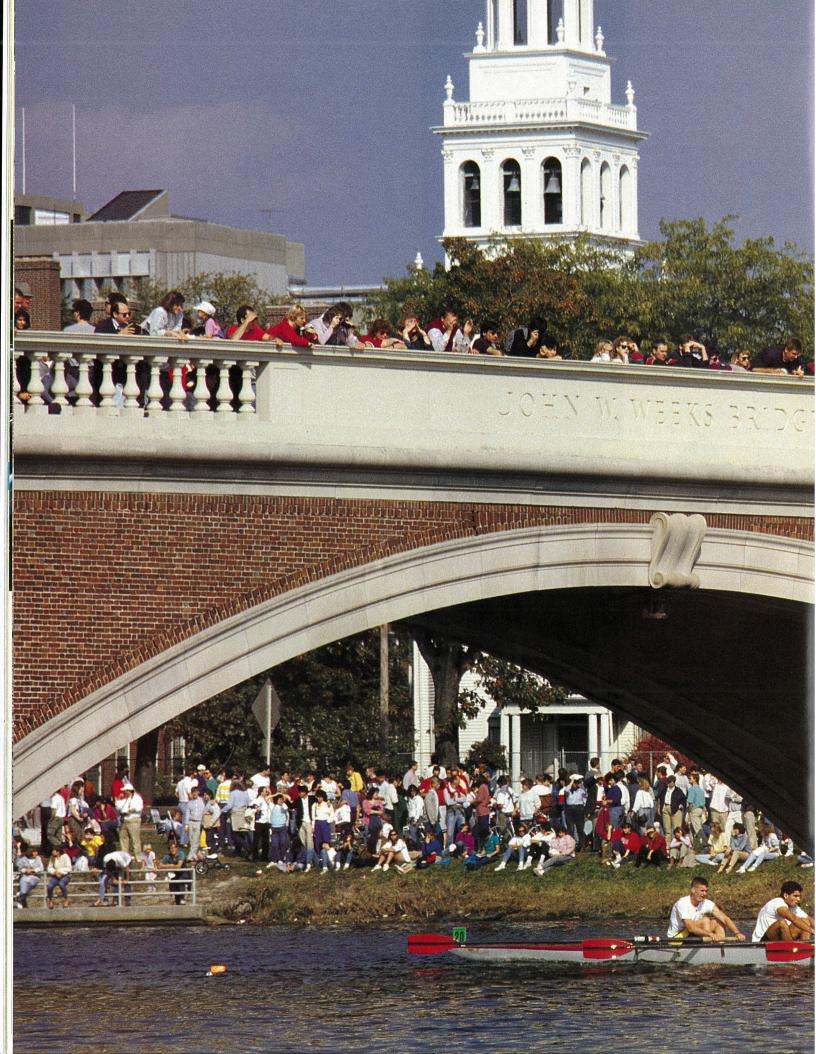








John Schoonover





encouraged women participants.

It was the aim of McIntyre, MacMahon, Olrich and their fellow committee members to organize a regatta that would bring diverse rowing intersets together in a single event at a time of the year - the fall - when there wasn't anything else available for them.

"Sculling is for all seasons, and not only during and after college but a lifetime commitment for many," said McIntyre.

When the Cambridge Boat Club members sought advice for starting a regatta, they went to Ernie Arlett, who had come from England with a enviable reputation in the sport. Arlett, who would start the Northeastern University varsity rowing program the same year that the Head-of-the-Charles began, suggested the "sequential" format of running boat after boat againist the clock rather than side by side.

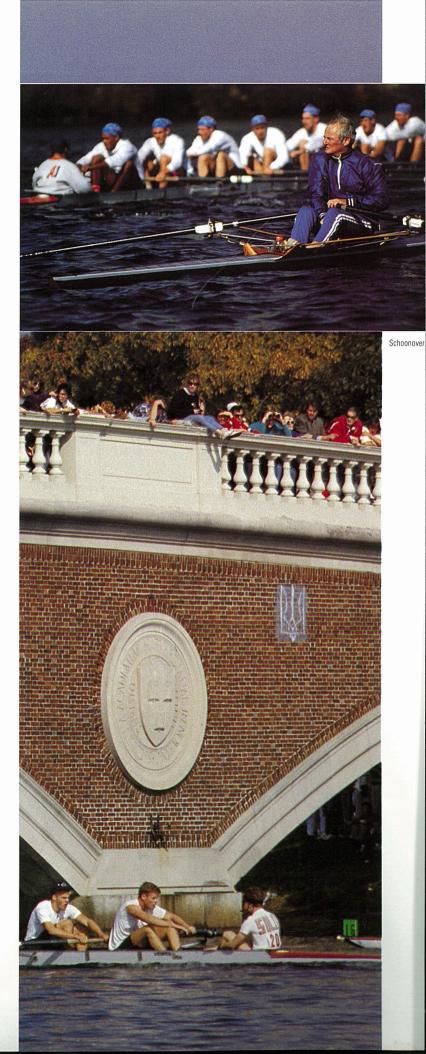
("Head" racing, by the way, has nothing to do with the section of a river on which a regatta is held. It simply means that the winner of each event is considered to be the reigning "head" of the Charles for that particular class of rowers until the title is taken away in a subsequent year.)

"They thought I was crazy for suggesting such a format and I thought they were crazy for trying to race eights and fours in the same regatta as sculls," says Arlett. "That's what made this unique. It had never been tried before."

But it worked. Each year a steady stream of rowers race the three mile stretch along the Charles River for three miles upstream from the BU Boat House. And the river banks become covered with thousands of spectators to watch the competition.

The Head-of-the-Charles has had a profound effect on promoting the sport of rowing. Arlett's praise for the regatta knows no bounds: "In my opinion, the Head has done more for American rowing than other single event."

-Reprinted in part with permission from the Boston Globe.



1. CLUB SINGLES 8:30 AM

Mens Division

1 M Frassica University of Lowell MA Potomac Boat Club DC 2 C Losee 3 J Bowen University of Rochester NY 4 P Sutton Argonaut RC Canada 5 J Pensak Riverside Boat Club MA 6 M Yale Leander Club England 7 S Spindler Davenport IA New York Athletic Club NY 8 O Slesar 9 C Brengel Weld Boat Club MA 10 W Robinson Lynn MA 11 D Eiref Union Boat Club MA 12 R Lewis Guatemala City Guatemala 13 P Coffman Occoguan Boat Club VA 14 M Muchnik Boucherville Club D'Aviron de Canada 15 J Reavis Narragansett Boat Club RI Union Boat Club MA 16 J Kermond 17 D Cataldo Riverside Boat Club MA Narragansett Boat Club RI 18 B Hoffman 19 T Weber Univ of Michigan Rowing Club MI 20 J Swab Albany Rowing Center NY Turner ME 21 S Miller 22 B Gerber Choate Rosemary Hall CT 23 J Shuttleworth Capitol RC DC Riverside Boat Club MA 24 M Streeter Choate Rosemary Hall CT 25 J Gerber 26 D Rand Harvard University MA 27 C Smillie Peterborough RC Canada 28 X Macia Argonaut RC Canada Riverside Boat Club MA 29 A McKinley 30 S Knapp Lincoln NE 31 W Makecki MIT Boat Club MA 32 D Montgomery Indiana Univ Rowing Club IN Riverside Boat Club MA 33 P Gordon Jr 34 T Pelnik Riverside Boat Club MA

37 P Karaman Pittsburgh PA 38 D Baugh St Joseph's University PA 39 N Trinsey

Penn A C Rowing Assn PA 40 G Pugh Fredericton R C Canada 41 E Franz Falls Church VA

Skidmore College NY

Occoguan Boat Club VA

Womens Division

35 S Clark

36 D Digilio

42 S Kitchen Argonaut RC Canada 43 E Miller Harvard University MA 44 J Williams Norwalk River Rowing Club CT Yankee Rowing Club MA 45 L Davis 46 A Salke Riverside Boat Club MA Riverside Boat Club MA 47 A Friday 48 R Millman Cambridge MA 49 R Lenard S Boston MA Halifax Nova Scotia Canada 50 L Pelham

51 A Verheul Riverside Boat Club MA Union Boat Club MA 52 E Kent

Oklahoma City Rowing Club OK 53 E Acworth

Argonaut RC Canada 54 J Butt 55 M Chernick Riverside Boat Club MA

56 J Ellis Lincoln NE 57 | Buschmann Detroit BC MI Harvard University MA 58 J Ward Riverside Boat Club MA 59 M Johansen 60 K Barnard Quinsigamond Rowing Club MA

Detroit BC MI 61 K Rait

62 R Davidon Harvard University MA

1989 Winners: T. Elwood (M) K.Steber (W) Men's Record- 18:39:6 (G. Florio, 1983) Louis Hawes Trophy

Women's Record- 20:55:80 (H. Lafferty, 1987) Peggy Hawes Trophy

2. CLUB FOURS 8:55 AM

Mens Division 1 Syracuse Chargers NY 2 Union Boat Club MA 3 Baltimore RC MD 4 Villanova University PA 5 Northeastern University MA 6 Hartford Barge Club CT 7 Clark University MA 8 Georgia Inst of Technology GA 9 Vassar College Crew Club NY 10 Saratoga Springs RC NY 11 Stanford Rowing Club CA 12 Bowdoin College RA ME 13 Norwalk River Rowing Club CT 14 Brandeis University Crew MA 15 Fairmount Rowing Assn PA 16 Worcester State College MA 17 Navesink River Rowing Club NJ 18 Rocky Mountain Rowing Club CO 19 New College BC - Oxford Univ. England 20 Albany Rowing Center NY 21 Franklin & Marshall College PA 22 Tulane University LA 23 Colgate RC NY 24 St Lawrence University RC NY

25 Palm Beach Rowing Assn FL 26 Belmont Hill RA MA 27 Cascadilla BC NY 28 Indiana Univ Rowing Club IN 29 Cambridge BC MA 30 Mt Baker Rowing & Sailing WA

31 Rollins College RA FL 32 University of Florida FL 33 Seattle Rowing Club WA 34 Berkshire School RA MA 35 London Rowing Club Canada 36 Camp Dimension Inc PA 37 Dowling College NY 38 Annapolis RC MD 39 Lehigh University PA

40 St Joseph's University PA 41 Ottowa-Carlton Rowing School Canada

42 Amoskeag RC NH

43 Michigan State University MI 44 Central Florida University of Fl

Women's Division

45 Villanova University PA 46 Minneapolis Rowing Club MN 47 Skidmore College NY 48 Notre Dame Rowing Club IN 49 Clark University MA 50 Miami Rowing Club FL 51 Brandeis University Crew MA 52 Baltimore RA University of MD 53 Albany Rowing Center NY 54 Housatonic Rowing Assn CT 55 Capitol RC DC 56 University of Vermont VT 57 S.U.N.Y. Albany NY 58 Amherst College RA MA 59 Berkshire School RA MA 60 St Lawrence University RC NY 61 Tulane University LA 62 Central Florida University of FL 63 Craftsbury Sculling Center VT 64 Dowling College NY 65 Fredericton RC Canada 66 Worcester State College MA 67 Orlando Rowing Club FL 68 Philadelphia Girls RC PA 69 Lehigh University PA 70 Jacksonville University FL

74 Santa Clara University CA 75 Indianapolis Rowing Club IN 76 Mills Cyclone Crew CA 77 Williamstown Boat Club MA 78 Notre Dame - N.H. College NH 79 Michigan State University MI 80 West Side Rowing Club NY

72 Indiana Univ Rowing Club IN

71 Carnegie Lake RA NJ

73 Worcester Poly Inst MA

1989 Winners: Syracuse Chargers (M) Villanova University (W) Men's Record- 17:31.87 (Fairmont Rowing Assn, PA 1987) Women's Record- 20:30.2 (Carnegie Lake Rowing Assn, NJ 1987)

3. CLUB EIGHTS 9:25 AM

Men's Division

- 1 Dartmouth RC NH
- 2 Bulldog RC NJ
- 3 Miami Rowing Club FL
- 4 Boston University MA
- 5 Wesleyan University CT
- 6 Harvard University MA
- 7 Power Ten of New York NY
- 8 Queens University Canada
- 9 Northeastern University MA
- 10 MIT Boat Club MA
- 11 Seattle Rowing Club WA
- 12 Holy Cross College MA
- 13 Narragansett Boat Club RI
- 14 San Diego RC CA
- 15 Williams College Boat Club MA
- 16 Little Brave Canoe RC MA
- 17 Carnegie Lake RA NJ
- 18 Hobart and William Smith NY
- 19 Worcester Poly Inst MA
- 20 Harvard Law School MA
- 21 Harvard Business School BC MA
- 22 Peterborough RC Canada
- 23 New Haven Rowing Club CT
- 24 Baltimore RA University of MD
- 25 Charter Oak RC CT
- 26 Rude and Smooth Boat Club NY
- 27 Drexel University PA
- 28 Northeastern Univ Rowing Assoc MA 66 California RC CA
- 29 Boston College MA
- 30 OARS of Rhode Island RI 31 Marist College NY
- 32 Detroit BC MI
- 33 University of Vermont VT
- 34 Northwestern University IL
- 35 St John's University RC MN
- 36 Tufts University MA
- 37 Raritan Valley Rowing Assn NJ
- 38 Syracuse Chargers NY
- 39 Notre Dame N.H. College NH

- 40 Western Reserve Rowing Assoc OH
- 41 Ithaca College NY
- 42 Milwaukee Rowing Club Inc WI
- 43 Nonesuch Oar & Paddle Club ME
- 44 UBC Extra Entry
- 45 Farmington Valley RA CT
- 46 Skidmore College NY
- 47 Univ of Michigan Rowing Club MI
- 48 Riverside Boat Club Extra Entry

Women's Division

- 49 Seattle Rowing Club WA
- 50 Wesleyan University CT
- 51 Dartmouth RC NH
- 52 MIT Boat Club MA
- 53 Univ of Michigan Rowing Club MI
- 54 Queens University Canada
- 55 Potomac River Dev Center VA
- 56 Housatonic Rowing Assn CT
- 57 College BC PA
- 58 Baltimore RC MD
- 59 Northwestern University IL
- 60 Ithaca College NY
- 61 Community RC MA
- 62 Triton Rowing Club NJ
- 63 Duke University NC
- 64 Lincoln Park Boat Club IL
- 65 Boston College MA
- 67 Holy Cross College MA
- 68 Conibear RC WA
- 69 Tufts University MA
- 70 Northeastern Univ Womens Crew MA
- 71 Wellesley College MA
- 72 Miami Rowing Club FL
- 73 Hobart and William Smith NY
- 74 Harvard Business School BC MA
- 75 Bucknell University Crew PA
- 76 Univ of Rhode Island RA RI
- 77 Wide Load Boat Club ME
- 78 Marist College NY
- 79 Manhattan College NY
- 80 Lakeside School/Martha's Moms WA
- 81 Lafayette College PA
- 82 University of Lowell MA

1989 Winners: Tideway Scullers, England (M) Seattle Rowing Club (W)

Men's Record: 15:14.6 (Temple Univ. PA 1984) Women's Record: 17:26.4 (Univ. of Minn.1982)

4. VETERAN SINGLES 9:55 AM

Men's Division- Age Handicap: 8 seconds / yr.

- 1 J Welchli (Age 61) Detroit BC MI
- 2 H Rogers Jr (Age 64) Boston Rowing Center MA
- 3 T Sprague (Age 66) Corning NY
- 4 D Challinor (Age 70) Potomac Boat Club DC
- 5 T Dowd (Age 61) Fairmount Rowing Assn PA
- 6 J Hubbard (Age 66) Riverside Boat Club MA
- 7 H Jans (Age 64) Cambridge BC MA
- 8 R Duncan (Age 74) Cambridge BC MA
- 9 A Fraiman (Age 64) Florida Rowing Center FL
- 10 R Cutler (Age 76) Riverside Boat Club MA
- 11 A Borghard (Age 61) Sagamore Rowing Assn NY
- 12 P Heller (Age 64) Shimmo Rowing Club MA 13 J Connors (Age 61) Union Boat Club
- 14 B Berckmans Jr (Age 60) Cardiac Rehab Rowing Project
- 15 R Burke (Age 72) Riverside Boat Club MA 16 R Vernon (Age 77) Cambridge BC MA
- 17 F de Marneffe (Age 66) Cambridge BC MA
- 18 P Curtiss Jr (Age 70) Cambridge BC MA
- 19 G Scott Jr (Age 79) Union Boat Club MA
- 20 P Snodgrass (Age 62) Indianapolis Boat Club IN
- 21 W Middendorf II (Age 66) Potomac Boat Club DC
- 22 A Camerota (Age 63) Community RC MA
- 23 E Thomas (Age 71) Upper Merion Boat Club PA
- 24 T Crosby (Age 89) Union Boat Club MA
- 25 W Killhour (Age 65) Palmetto R C SC
- 26 T Carhart (Age 72) Yankee Rowing Club MA
- 27 S Law (Age 61) Potomac Boat Club DC
- 28 P Daulte (Age 75) Societe Nautique Etoile de Bienne
- 29 A Bentley Jr (Age 61) Toledo Rowing Club OH
- 30 B Sylvestar (Age 66) Choate Rosemary Hall CT
- 31 J Manson (Age 66) Community RC MA
- 32 J Bigelow (Age 68) Agueduct Rowing Club NY
- 33 E English (Age 61) Downey CA
- 34 G Gifford (Age 60) Cambridge BC MA

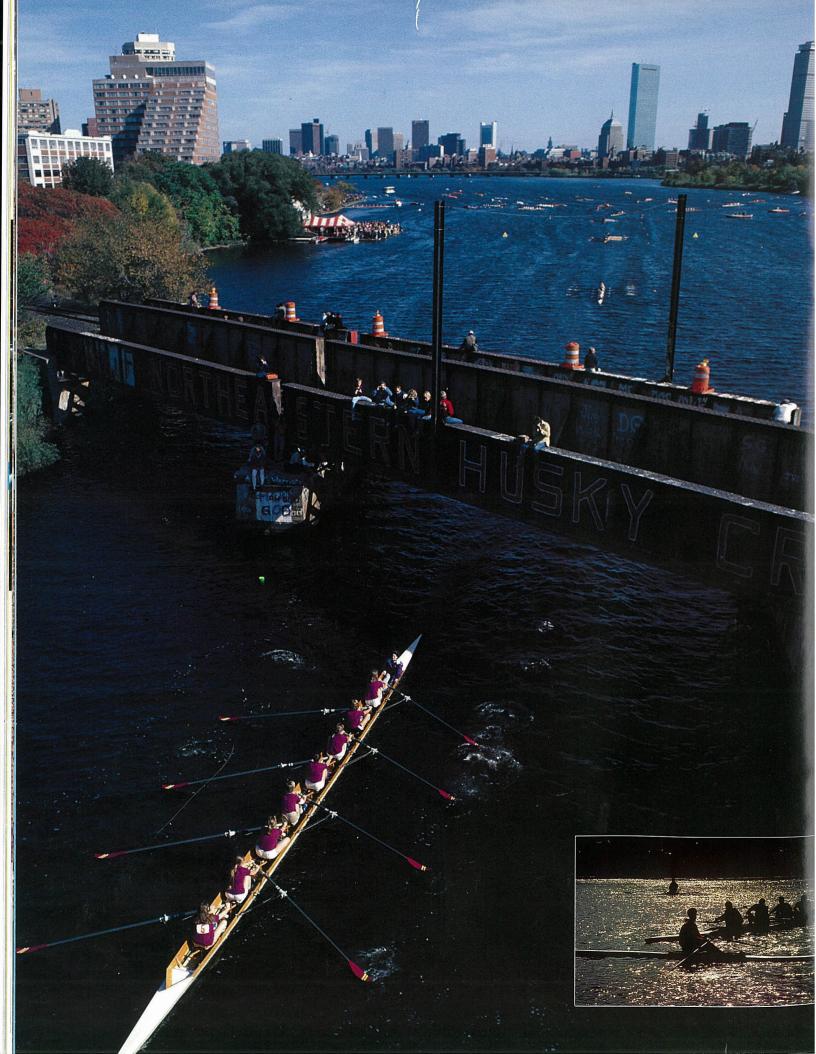
Women's Division

- 35 K Loewy (Age 65) Philadelphia Girls RC PA
- 36 G Zint (Age 73) Edgewater FL
- 37 E Bayer (Age 81) Alden Ocean Shell Assn NH

1989 Winners: D. Challiner (M) K. Loewy (W)

Men's Record: 19:30.74 (S. Pell, 1987) Olrich Trophy

Women's Record: 24:55.85 (G. Zint, 1987)



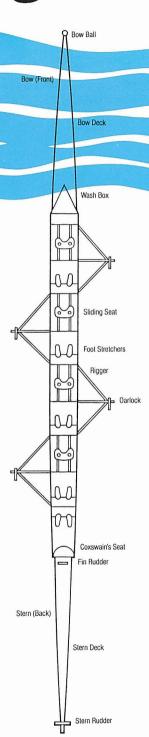
Rowing

Catch Drive, Finish, Recovery

The rowing motion involves the entire body to move a shell through the water. Basically the stroke is made up of four parts: catch, drive, finish, and recovery.

As the stroke begins, the rower is coiled forward on the sliding seat, with knees bent and arms outstretched. At the catch, he drops the oarblade vertically into the water. At the beginning of the drive, the body position doesn't change - all the work is done by the legs. Then, as the upper body begins to uncoil, the arms begin their work, drawing the oarblades through the water. Continuing the drive, the rower moves his hands quickly into his body, which by this time is in a "layback" position about the same angle as sitting in a comfortable living room chair.

During the finish, the oar handle is moved down, drawing the oarblade out of the water. At the same time, the rower "feathers" the oar (turns the oar handle) so that the oarblade changes from a vertical position to a horizontal one. The oar remains out of the water as the rower begins recovery, moving his hands away from the body and past the knees. The body follows the hands and the sliding seat moves forward until, knees bent, the rower is ready for the next catch. -Reprinted with permission from the USRA



REGATTA WATCHING

The crew that's making it look easy is most likely the one doing the best job, working very hard and hurting the most. While you're watching the race here are some things to look for:

Continuous, fluid motion of the rowers. The rowing motion shouldn't have a discernible end or beginning.

Synchronization. Rowers strive for perfect synchronization in the shell. Like any other sport, something less than standard technique may work now and then, but if you intend to be a World Chambion rower you'd better master the correct technique.

Clean catches of the oarblade. If you see a lot of splash, the oarblades aren't entering the water correctly. the catch is supposed to happen at the very end of the recovery, when the hands are as far ahead of the rower as possible. Rowers who begin to uncoil before they drop the oarblades are sacrificing speed by not getting a complete drive

Even oarblade feathering. When the blades are brought out of the water, they should all move horizontally at the same height, just above the water. The rower is "skying" if he is dropping his hands too low before the catch, causing the oarblade to rise before it drops into the water. Feathering, which is difficult in perfect conditions, becomes extremely challenging in rough water.

You'll notice that shells don't move at a consistent speed, slowest at the catch, quickest at the release. A good crew times the catch at the right moment to maintain the speed of the shell.

How many strokes per minute the crew is taking- the stroke rate, varies from boat to boat. An eight can acheive a higher stroke rate than a single; and an extremely tall person can take less strokes per minute than some one smaller and still move faster. At the start, the stroke rate will be higher- maybe 40-44 for an eight, 36-40 for a single. Then the boat will drop the rate to 32-36 (8+) or 28-32 (1x) for a middle of the race. Coaching strategy determines when the boat will sprint, but finishing stroke rates of 40-42 for an eight are possible, and 46 is amazing! There are specially-designed stroke watches for determining all this, but you can figure it yourself if you count the number of strokes that happen in 15 seconds (catches - 1 = stroke) and multiply by four.

Remember everything already mentioned-especially technique- gets harder and harder as the race progresses. Assuming you'll have an easier time separating the excellent crews from the mediocre, just because rowers who look textbook at the start, may look anything but at the finish.

Rowers speak of the race in terms of one mile sections. For example the two mile mark is only two-thirds through the race, with 1 mile to go.

5. YOUTH FOURS 10:25 AM

6. GRAND MASTER SINGLES 10:55 AM

NY

Men's Division

- 1 US Naval Academy MD
- 2 Princeton University Rowing Club NJ
- 3 Temple University PA
- 4 Buckingham Browne & Nichols MA
- 5 Raritan Valley Rowing Assn NJ
- 6 Northfield Mount Hermon MA
- 7 Fairmount Rowing Assn PA
- 8 Choate Rosemary Hall CT
- 9 Mendota Rowing Club WI
- 9 Wendota Rowing Club W
- 10 Simsbury High School CT
- 11 La Salle College HS PA
- 12 University of Wisconsin WI
- 13 Charles River RA MA
- 14 Navesink River Rowing Club NJ
- 15 Vassar College Crew Club NY
- 16 Hanlan Boat Club Canada
- 17 St Andrews Rowing Club GA
- 18 Brandeis University Crew MA
- 19 Penn A C Rowing Assn PA
- 20 Craftsbury Sculling Center VT
- 21 Kingston Rowing Club Canada
- 22 Hyde School ME
- 23 College BC PA
- 24 Peddie School NJ
- 25 Three Rivers Rowing Assoc PA

Women's Division

- 26 Princeton University Rowing Club NJ
- 27 Fredericton R C Canada
- 28 Northfield Mount Hermon MA
- 29 Simsbury High School CT
- 30 Argonaut RC Canada
- 31 Winsor School MA
- 32 Choate Rosemary Hall CT
- 33 Mendota Rowing Club WI
- 34 Buckingham Browne & Nichols MA
- 35 St Mark's School Boat Club MA
- 36 Western Reserve Rowing Assoc OH
- 37 Cascadilla BC NY
- 38 University of Wisconsin WI
- 39 St Andrews Rowing Club GA
- 40 Newport Aquatic Center CA
- 41 Peddie School NJ
- 42 Albany Rowing Center NY

1989 Winners: US Naval Academy (M) Princeton (W) Men's Record: 16:26.6 (Hanlan Boat Club, Canada, 1984) Women's Record: 19:32.6 (Mendota Rowing Club, WI. 1984)

Men's Division

1	J McGowan	New York Athletic Club
2	T Swayze	Potomac Boat Club DC
3	B Jones	Cambridge BC MA
4	C Peterson	Cambridge BC MA
5	A Laundon	Waterbury VT

6 R Green Narragansett Boat Club Rl
7 W Reimann Cambridge BC MA
8 R Perkins Riverside Boat Club MA

9 H Treffeisen Club D'Aviron de Montreal Canada

10 P de Manio Sarasota Scullers FL
11 J Heiden Mendota Rowing Club WI
12 E Matthews New York Athletic Club NY
13 L Cabot Cambridge BC MA

14 G Richmond Merrymeeting Rowing Club ME
15 J Mangine Albany Rowing Center NY
16 D Crosby Union Boat Club MA

17 G Bruneaux Narragansett Boat Club RI
18 T Jesdale Groton School MA
19 D Hodgdon Albany NY

20 F Alvarez Cambridge BC MA
21 H Sears Union Boat Club MA
22 M Halpert University Barge Club PA
23 H Tuttle Jr Essex Rowing Club CT

24 N O'Connor
25 J Lyden
26 D Kamrad
Union Boat Club MA
Rollins College R A FL
Central Florida University of FL

27 L Coolidge Union Boat Club MA

28 D Robinson
29 E Masias
30 M Hochman
31 C Melby
32 B Anderson
33 R Anderson
34 C Ambridge BC MA
36 C Ambridge BC MA
37 C Ambridge BC MA

32 R Anderson Cambridge BC MA
33 P Houck Cambridge BC MA
34 M Vega Tampa Rowing Club FL

35 J Blake St Catherines Rowing Club Canada

36 J Sowles Union Boat Club MA 37 J McMullen Buffalo NY 38 G Baldwin Durham BC NH 39 J Lyttle Argonaut RC Canada

40 W Hawkey Norwalk River Rowing Club CT

41 C Baldwin
42 V Maslov
43 P Davenport
44 T Philippi
45 G Sutherland
46 Harvard University MA
Cambridge BC MA
Rollins College R A FL
Union Boat Club MA
Newport Aquatic Center CA

46 S Pell Princeton University Rowing Club NJ
47 D MacMahon Lincoln/Wayland MA

47 D MacMahon
48 E Loveless
49 L Martin
50 P Canning
47 D MacMahon
Lincoln/Wayland MA
New York Athletic Club NY
Union Boat Club MA
Bedford Hills NY

Women's Division

51 S Nestor Sagamore Rowing Assn NY
52 B Green Narragansett Boat Club RI
53 N Myers Union Boat Club MA
54 N Heiden Mendota Rowing Club WI

1989 Winners: J. McGowan (M) S. Nestor (W) Men's Record: 21:01.35 (W.Reimann, 1988) Mowatt Trophy Women's Record: 28:59.45 (C. McGowan, 1988)

7. YOUTH EIGHTS 11:20 AM

8 SENIOR MASTER SINGLES 12:00 NOON

Men's Division

- 1 Charles River RA MA
- 2 Harvard University MA
- 3 University of Pennsylvania PA
- 4 Yale University CT
- 5 Northeastern University MA
- 6 Boston University MA
- 7 Northeastern Univ Rowing Assoc MA
- 8 Cornell University NY
- 9 La Salle College HS PA
- 10 College BC PA
- 11 Yale Old Fellows Rowing Assoc CT
- 12 Georgetown Univ Rowing Assn DC
- 13 Father Judge High School PA
- 14 Belmont Hill RA MA
- 15 Fairmount Rowing Assn PA
- 16 Groton School MA
- 17 St John's High School MA
- 18 Simsbury High School CT
- 19 Buckingham Browne & Nichols MA
- 20 Thames River Sculls CT
- 21 Toledo Rowing Club OH
- 22 Newport Aquatic Center CA
- 23 Penn A C Rowing Assn PA
- 24 St Catherines Rowing Club Canada
- 25 Bulldog RC NJ
- 26 St Mark's School Boat Club MA
- 27 NY Maritime College NY
- 28 University of Wisconsin WI

Women's Division

- 29 Radcliffe College MA
- 30 College BC PA
- 31 Mount Holyoke College MA
- 32 Yale University CT
- 33 Cornell University NY
- 34 Boston University MA
- 35 St Catherines Rowing Club Canada
- 36 Northeastern Univ Womens Crew MA
- 37 Simsbury High School CT
- 38 Onota Lake Rowing Club MA
- 39 BBN Extra Entry
- 40 Winsor School MA
- 41 Kingston Rowing Club Canada
- 42 Groton School MA
- 43 MIT Boat Club MA
- 44 Choate Rosemary Hall CT
- 45 Hanover Rowing Club NH

1989 Winners: Charles River R.A. (M) Radcliffe College (W)

Men's Record: 15:29.6 (Father Judge H.S. 1971) Women's Record: 17:32.4 (Yale Univ., 1986)

Manda Divinia

Meu, s divisiou					
1	R Spousta	Potomac Boat Club DC			
2	J Dietz	Thames River Sculls CT			
3	H Hamilton	Quebec Sculling School			
4	J Bernfield	University of Rochester NY			
5	J Laundon	Essex Rowing Club CT			
6	R Anderson	Grand Rapids Rowing Club	MI		
7	W Bowles	California YC Rowing CA			
8	R Lownes	Narragansett Boat Club Rl			
9	D Vogel	Yale University CT			

10 E Van Dusen Concord MA Malta Boat Club PA 11 G Sciolla Undine Barge Club PA 12 C Viola Argonaut RC Canada 13 M Kuster 14 J Foltz Rangeley ME

Norwalk River Rowing Club CT 15 P Negus

16 G Gallico Union Boat Club MA 17 D Healey Cambridge BC MA

Three Rivers Rowing Assoc PA 18 D Thompson

Union Boat Club MA 19 J Keating 20 J Davidson Cambridge BC MA Cambridge BC MA 21 J Born

Norwalk River Rowing Club CT 22 M Watson 23 C West Holliston MA Cambridge BC MA 24 W Barrett Hanlan Boat Club Canada 25 C Shearing 26 D Jones Squamscott Scullers Ltd NH Riverside Boat Club MA 27 J Hanley Bachelor's Barge Club PA 28 J St Clair 29 S Weiskittel Seneca Rowing Club NY Atlanta RC GA 30 B Wilson Amoskeag RC NH 31 B Cotta Chelsea Rowing Club NY 32 E West

Saratoga Springs R C NY 33 T Frost Jr Baltimore RC MD 34 W Cesewski

Sagamore Rowing Assn NY 35 C Lawrence

Marlow NH 36 J Strickland

37 D Gantz Potomac Boat Club DC River City Rowing Club 38 B Tucker Cambridge BC MA 39 K Lynch

Norwalk River Rowing Club CT 40 T Hardy

41 A Coppock Stowe VT 42 A Larkin

Yankee Rowing Club MA Portland Rowing Club OR 43 M Mathers Ridley Graduate B C Canada 44 D McSween Farmington Valley R A CT

45 P Carabillo Stockholm ME 46 J Tucker Guilford CT 47 R Schulter

Women' Division

Philadelphia Girls R C PA 48 D Post

Austin TX 49 M Meyer Portland Rowing Club OR 50 M McCormick

51 S Urbas Chicago River Aquatic Center IL Tahoe Rowing Club NV 52 C Cook Philadelphia Girls R C PA 53 K MacDonald

Potomac Boat Club DC 54 W Ottinger 55 E Razee Narragansett Boat Club RI Westport MA 56 G Canning

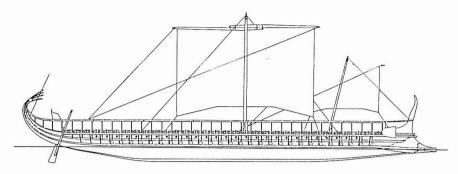
57 J Denby Amesbury MA

58 E Webber Potomac Boat Club DC Philadelphia Girls R C PA 59 E Lynn

1989 Winners: R. Spousta (M) D. Post (W) Men's Record: 18:34.3 (J. McGowan, 1984) Women's Record: 22:29.6 (M. Meyer, 1987)

Original Competition

Rowers Revisited



Most rowers would be correct in thinking that an eight is the fastest human-powered boat in the world, but they would be wrong to think that it was the fastest ever. Over two thousand years ago, in the fifth century B.C., ancient Greeks rowed ships that would probably have beaten even the fastest eight today. Called triremes (pronounced "TRY-reams"), these ships were rowed with huge crews of 170 men. Unlike the light and fragile eight, a trireme was a warship weighing 40 tons with its crew. Armed with a massive bronze ram mounted on the bow, it was specially designed to ram an enemy ship, disengage, and rapidly manoeuvre away to ram another ship. No one knows what the top speed of a trireme might have been, but we do know that a trireme could cruise for hours at speeds of 7 to 8 knots, which implies a top sprint speed of over 11 knots. For comparison, the fastest eight in the fastest division of the Head of the Charles will cover the three mile course today in about 15 minutes, or 10.4 knots, to use the more common nautical measure of speed. The fastest eight in the world covers the standard racing distance of 2,000 meters in 5:30 minutes, or 11.8 knots.

What these triremes looked like, and how they were rowed, is a puzzle which has stumped generations of classical scholars and naval historians. Though thousands of triremes were lost in battle, and though dozens of ancient wrecks have been discovered in the Mediterranean since the Second World War. not one is the wreck of a trireme. When an ancient trireme was rammed, its unballasted hull did not sink but only swamped. The crew would swim for land, and the disabled ship would be towed away by the victor or drift ashore and break up in the waves. These ships were common in antiquity, but no complete written description survives. There are only some inconclusive details mentioned by ancient writers, some fragmentary views from vase paintings and stone relief sculptures, and a few other pieces of evidence. It was not even known if the "tri" in trireme referred to three

tiers of rowers, as some scholars thought, or to three men sitting togeher on a single rowing bench.

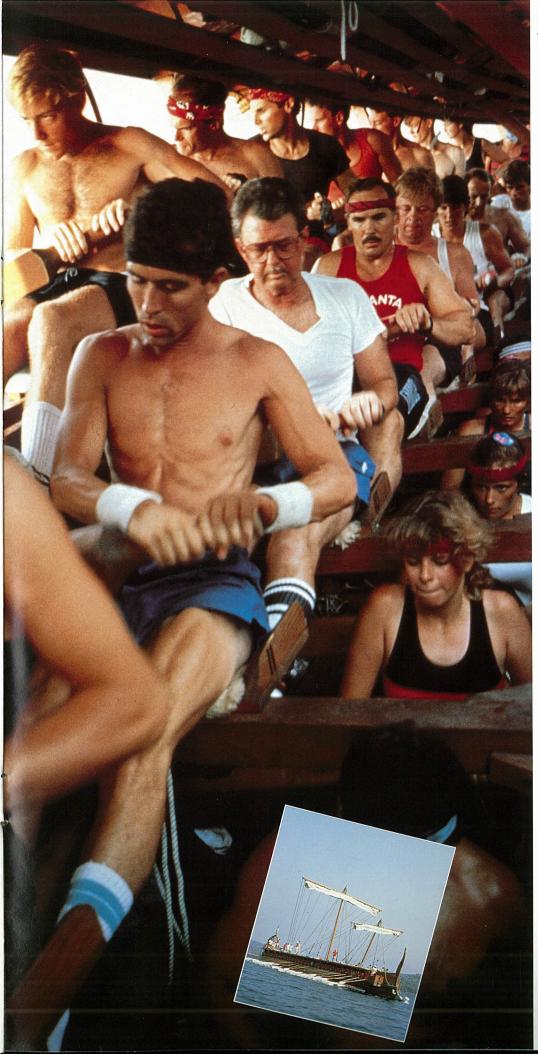
How to cram the 170 rowers of a trireme into a ship only twice the length of an eight was a problem which was solved only eight years ago, the result of a fruitful collaboration between John Morrison, an ancient historian at Cambridge University, and John Coates, the former chief naval architect at the British Ministry of Defense. Coates was an expert in the design of warships, and Morrison was the leading authority on ancient oared ships. Together they produced a design which satisfied the fragmentary ancient evidence and the unchanging principles of physics and mechanics. Their solution was a ship rowed on three tiers, the top tier of rowers actually sitting out on top of the gunwale and rowing on an outrigger. Only in this way could enough rowers be fitted into the known length of a trireme, about 120 feet. Furthermore, their design was at the very limits of what is technically possible with wood, copper nails, and the other materials available in antiquity. Successful weapons have always been like that, always skirting the edge of the impossible, and this was valuable confirmation that Morrison and Coates' design was accurate. With financing from the Greek government, their design was turned into reality and the newest ship in the Hellenic Navy, the first trireme to be built in more than a thousand years, was launched with great fanfare in the summer of 1987 and christened Olympias.

How were speeds of 11 knots or more possible for such a large ship? As many rowers know, the principal resistance which must be overcome in moving a boat is the frictional resistance of the water, which is proportional to the wetted area of the hull. The wetted surface of a racing eight is about 9.8 square meters, nor 1.22 square meters per rower. The wetted surface of *Olympias* is 118 square meters, or 0.69 per rower. Thus, the frictional resistance per rower of a trireme is just over half that of an eight. Even with a

rougher hull than an eight, *Olympias* is theoretically capable of greater speed. Ancient triremes were so fast and manoeuverable that they were legendary both for their speed and for the difficulty of learning how to row them. The ancient Greek historians say that the Athenian crews, who were particularly good at it, trained eight months of the year, and that even years of practice did not result in perfection. The task facing *Olympias'* first crew was to row the ship as fast as its theoretical capability, a daunting task, to prove that the reconstructed trireme was as fast as her ancestors.

The first sea-trials were organized by the British Trireme Trust, which had funded Coates' research, and it was with some trepidation, given what the ancients had said about the difficulty of trireme rowing, that I found myself one of the crew of 200 who flew out to Greece in the summer of 1987 to try to figure out how to row John Coates' and John Morrison's creation. The rower of any eight can tell you how difficult it is to row all eight together, bodies moving as one, oars in perfect time. Imagine trying to synchronize your stroke with 169 others and in three dimensions, with rowers above and below, blades only 12 inches apart in the water. Then try to imagine rowing like that at a rate of 46 strokes a minute. This was the prospect that awaited us.

The first outing was chaos, the ship like an ungainly centipede, with oars crossing one another, caught and carried this way and that by other oars, all complicated by the fact that the bottom two tiers of rowers rowed through oarports and could not see their blades or the water at all, while the top tier, the thranites, could only see chaos that was so disconcerting and so disorienting that it quickly became clear that it was better not to look out at all but to concentrate on the rhythm of the rowers in the ship. There was such a maelstrom of oars that it was more confusing to try to find some open water for a thranite blade, than to just take the catch without looking and hope the oar managed to go into the water. The clearance between the blades was so small that the tiniest error in rhythm or blade control caused a clash of oars with a ripple effect which would cascade along the ship. It quickly became obvious that the principal difficulty in learning how to row the trireme, and make it go fast, was this need for perfect synchronicity. This was the secret of the tremendous speed that gave the trireme its edge in naval battles. We never got Olympias much beyond 7 knots in the three weeks of sea-trials that first year, nothing like the speed we had hoped for, but then our rowers ranged from elite to novice, and the standard of fitness varied tremendously.



There have been two seasons of sea-trials since then, with much more satisfactory results. Part of the reason is that we now better know how to row this fascinating ship, and the rowers who are selected to be part of the crew attend a three-day training camp the weekend before departure for Greece. In sea-trials last summer, we touched 8.9 knots, representing a power increase of about 60% over the results in the second series of trials in 1988 (and 150% more power than the first crew). Even more amazing, we took the ship on a five-day voyage around the Aegean, including one day when we rowed non-stop for eight hours against the wind, covering 31 miles. In addition, in simulating battle manoeuvres we could row from a standing start to 7 knots in just 30 seconds, and execute a 180% turn in just 52 seconds. These are performance characteristics comparable to or better than the fastest modern warships. More than once we had to abort a manoeuvre to avoid hitting one or more of the pleasure yachts that constantly surrounded us, for we were a big tourist attraction. The on-lookers had no idea that such a large vessel could move so fast or so nimbly.

Olympias is rowed by crews recruited from all over the world. I recruited 95 North Americans for last summer's trials, representing 25 states and 3 Canadian provinces, and a dozen of them are here today competing in this year's Head of the Charles. The 1990 crew also included rowers from England, Ireland, Holland, West Germany, Israel, Australia, and Greece. There were 60 women and 125 men in the crew in all. Probably every rower competing in the Head of the Charles would agree that rowing is addictive. There is something about the sport that is exciting and unequalled in any other activity. Perhaps for many it is the wonderful feeling of moving together in perfect unison in an eight. Just imagine what it is like to row in unison with 169 others! One of the California rowers wrote to me afterwards that he had been expecting it to be one of the high points of his rowing career. Instead, he said, it was THE high point of his LIFE to row such a fabulous ship.

It has not yet been decided if there will be another series of sea-trials in the summer of 1991, but if you are interested in being considered for the crew for this or subsequent trials, write for information to the Trireme Trust USA, 803 South Main Street, Geneva, New York 14456. Participants must pay for their own food and airfare, but accommodations are provided free in Greece courtesy of the Greek government.

-Ford Weiskittel, Trireme Trust USA

9. LIGHTWEIGHT FOURS 12:30PM

10. MASTER SINGLES 1:00 PM

Men's Division

- 1 Boston Rowing Center MA
- 2 Tufts University MA
- 3 OARS of Rhode Island RI
- 4 Craftsbury Sculling Center VT
- 5 NY Maritime College NY
- 6 Undine Barge Club PA
- 7 Harvard University Extra Entry
- 8 Potomac River Dev Center VA
- 9 Queens University Canada
- 10 Ohio State Univ Crew OH
- 11 Charles River RA MA
- 12 Bowdoin College RA ME
- 13 Duke University NC
- 14 Colby Crew Club ME
- 15 Lafayette College PA
- 16 Amherst College RA MA
- 17 Worcester State College MA
- 18 Peterborough R C Canada
- 19 Vassar College Crew Club NY
- 20 Minneapolis Rowing Club MN
- 21 Austin RC TX
- 22 Hanover Rowing Club NH
- 23 Univ of Rhode Island R A RI
- 24 Hofstra University NY
- 25 Dowling College NY
- 26 Palm Beach Rowing Assn FL
- 27 Cornell University NY
- 28 Pioneer Valley Rowing Assn CT
- 29 Georgetown Univ Rowing Assn DC
- 30 S.U.N.Y. Albany NY
- 31 Ottawa Rowing Club Canada
- 32 Bachelor's Barge Club PA
- 33 Middlesex Western R C CA
- 34 Argonaut RC Canada
- 35 University of St Thomas MN
- 36 Baltimore RC MD
- 37 McGill University R C Canada
- 38 Thames River Sculls CT
- 39 Leander Boat Club Canada
- 40 Augusta College RC GA

Women's Division

- 41 Baltimore RC MD
- 42 Vesper Boat Club PA
- 43 SUNY Albany NY
- 44 Univ of Texas Women's Crew TX
- 45 OARS of Rhode Island RI
- 46 Boston 'T' Club MA
- 47 Radcliffe College Extra Entry
- 48 Cal at Davis University of CA
- 49 Fordham University C C NY
- 50 Mendota Rowing Club WI
- 51 Augusta College RC GA
- 52 Bowdoin College RA ME
- 53 Ottowa Carlton Rowing School Canada
- 54 Ohio State Univ Crew OH
- 55 West Side Rowing Club NY
- 56 Brandeis University Crew MA
- 57 Bachelor's Barge Club PA
- 58 Jacksonville University FL
- 59 McGill University R C Canada
- 60 Austin RC TX
- 61 Minneapolis Rowing Club MN
- 62 Colby Crew Club ME
- 63 Colby Crew Club ME

1989 Winners: Boston R.C. (M) USRA Crew (W) Men's Record: 16:27.4 (MIT 1984) Coleman Cup

Women's Record: 18:49.9 (Lt.Wt. Devel. Camp, 1986) MDC Trophy

Men's Division

1 B Thorne	St Catherines	Rowing	Club	Canada
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2 M Richardson-Bach Riverside Boat Club MA

3 B Smith Union Boat Club MA

4 M Totta Yarmouth ME 5 A Bax Potomac Boat Club DC

6 M Hindery Fairmount Rowing Assn PA

7 P Monckton Argonaut RC Canada 8 J Brisson New York Athletic Club NY

9 R Sengstaken Merrimac River Rowing Assn MA

10 J Bidigare Worthington OH

11 C Sutton Union Boat Club MA 12 J Ames Jr Riverside Boat Club MA 13 C Selden Baltimore RC MD

14 L Wells Riverside Boat Club MA 15 L Chouinard

Minneapolis Rowing Club MN Belmont Hill RA MA 16 T Wood

17 T Marcovy Western Reserve Rowing Assoc OH 18 G Kerr Norwalk River Rowing Club CT 19 P Cookson University of Toronto Canada

20 J Tapscott Riverside Boat Club MA

21 D Sitek Detroit BC MI 22 J Sheetz Cambridge BC MA

23 N Wood Noble & Greenough School MA

24 D Chernoff Riverside Boat Club MA

25 D Filosa New York NY

26 J Polcari Merrimac River Rowing Assn MA

27 G Roddy Union Boat Club MA 28 M Verlin New York Athletic Club NY 29 J Stewart London Rowing Club Canada 30 B Wise Narragansett Boat Club RI

31 P Andre dela PortCambridge BC MA 32 A Shoobs Kings Crown Rowing Assn NY 33 P Gross Narragansett Boat Club RI

34 C Hirschler New York NY 35 M Boyle Cambridge MA 36 R Haque Cambridge BC MA 37 A Hussel Argonaut RC Canada

38 R Rovs II Jenison MI 39 J Morreale Hamilton Ont CN 40 C Matthes Riverside Boat Club MA 41 K Galie Boston University MA 42 D Gorzewski Narragansett Boat Club RI

Undine Barge Club PA 43 E Doolin 44 R Baron Great Neck NY

45 T Frey Fort Worth TX

Women's Division 46 K Reith New Rochelle NY 47 J Strauss

Worcester Poly Inst MA 48 Z Horne Tideway Scullers England 49 S Kenny Narragansett Boat Club RI

50 S Mallett Vesper Boat Club PA 51 M Lane Riverside Boat Club MA

52 L Stone Newton MA

53 J Hannafin New York Athletic Club NY

54 A La Rochelle Meadville PA

55 M Ganzer Riverside Boat Club MA 56 C Geer Hinesburg VT

57 M Cate California YC Rowing CA

Conibear RC WA 58 R Smith 59 B Spitz Philadelphia Girls R C PA 60 B Zucker Norwalk River Rowing Club CT

1989 Winners: B. Smith (M) P. Pinkerton (W) Men's Record: 18:16.9 (R. Spousta, 1984) Women's Record: 20:36.1 (N. Storrs, 1984)

Men's Division

- 1 Vesper Boat Club PA
- 2 Kingston Rowing Club Canada
- 3 Dartmouth RC NH
- 4 St Catherines Rowing Club Canada
- 5 Yale University CT
- 6 Cornell University NY
- 7 New York Athletic Club NY
- 8 US Coast Guard Academy CT
- 9 Columbia University NY
- 10 Riverside Boat Club MA
- 11 Charles River RA MA
- 12 Potomac Boat Club DC
- 13 Bachelor's Barge Club PA
- 14 Univ of Michigan Rowing Club MI
- 15 Hanover Rowing Club NH
- 16 Villanova University PA
- 17 Harvard University MA
- 18 Sparhawk Sculling School VT
- 19 MIT Boat Club Extra Entry
- 20 Laval Club D'Aviron de Canada
- 21 Boston Rowing Center MA
- 22 Fordham University C C NY
- 23 Univ of Texas Men's Crew TX
- 24 Notre Dame Rowing Club IN
- 25 Leander Boat Club Canada
- 26 Ottawa Rowing Club Canada
- 27 Mystic Valley R A MA
- 28 Rutgers University NJ
- 29 Potomac River Dev Center VA
- 30 St John's University R C MN
- 31 Manhattan College NY

Women's Division

- 32 Boston Rowing Center MA
- 33 St Catherines Rowing Club Canada
- 34 Mt Baker Rowing & Sailing WA
- 35 Radcliffe College MA
- 36 Minnesota Boat Club MN
- 37 Empire State Rowing Assn NY
- 38 Potomac Boat Club DC
- 39 St Joseph's University PA
- 40 Laval Club D'Aviron de Canada
- 41 Riverside Boat Club MA
- 42 Colgate RC NY
- 43 Queens University Canada
- 44 University of Toronto Canada

1989 Winners: Vesper Boat Club (M) Boston RC (W)

Men's Record: 14:48.4 St. (Catherine's RC, Canada 1984) Bos. Herald Trophy Women's Record: 16:42.4 (Lt.Wt. Devel. Camp 1984) Boston Mayor's Trophy

Men's Division

mon o Bitiolen				
1 C Schulten	Yale University CT			
2 P Fuchs	New York Athletic Club NY			
3 L Klecatsky	New York Athletic Club NY			
4 E Kuhn	Riverside Boat Club MA			
5 S Schmitt	Potomac Boat Club DC			
6 T O'Hara	Detroit BC MI			
7 N Norcross	Ithaca NY			

8 P Code Argonaut RC Canada 9 M Brown Malta Boat Club PA

Northeastern Univ Rowing Assoc MA 10 K Hogan

11 J Truppelli Carnegie Lake RA NJ 12 G Belmont Watertown MA Narragansett Boat Club RI 13 K Green

Riverside Boat Club MA 14 M Watts 15 D Thomashow Englewood NJ Ottawa Rowing Club Canada 16 E Fournier Palm Beach Rowing Assn FL 17 R Samilian

18 P MacKenzie Riverside Boat Club MA Greater Columbus Rowing Assoc OH

19 R Trefethern Leander Boat Club Canada 20 P Matozzo 21 S Truslow Harvard University MA 22 E Beinhocker Harvard University MA Dartmouth RC NH 23 J Holland 24 D Land Harvard University MA Palm Beach Rowing Assn FL 25 M Conroy

Fredericton R C Canada 26 J Cleveland 27 C Cozzani Chicago River Aquatic Center IL Boston Rowing Center MA 28 J Feenan Hobart and William Smith NY

29 M Craig Pittsburgh PA 30 T Marks Denver CO 31 C Wray Kingston Ont CN 32 B Linscott Weld Boat Club MA 33 E Berg

34 C Windeknecht New York Athletic Club NY 35 K Knight Kingston Rowing Club Canada

36 F Hamm III Cambridge BC MA 37 M Mills Pittsburgh PA Undine Barge Club PA 38 R Ezold 39 D Brauer East Hampton NY

Morningside Rowing Assn NY 40 E Hewitt Boucherville Club D'Aviron de Canada 41 K Ouellette

Women's Division

42 N Shechter New York NY

Boston Rowing Center MA 43 N Streeter 44 J Mainville Boucherville Club D'Aviron de Canada

Laval Club D'Aviron de Canada 45 L Ritchie Harvard University MA 46 L Donohue Kings Crown Rowing Assn NY 47 C Allen

Cabot VT 48 M Royle

49 F Middendorf Narragansett Boat Club RI 50 J Florio Fordham University C C NY Potomac Boat Club DC 51 J Keene

Kingston Rowing Club Canada 52 A Butler St Catherines Rowing Club Canada 53 H Lapperty Boston Rowing Center MA

54 A Shaw Stamford CT

55 P Johnston Chicago River Aquatic Center IL 56 F Tuite Riverside Boat Club MA 57 P Belden

1989 Winners: F. Goebel, Netherlands (M) N. Notman (W) Men's Record: 17:24.8 (P. Fuchs, 1984) Arlett Trophy Women's Record: 19:30.7 (A. Martin, 1984) Singer Trophy

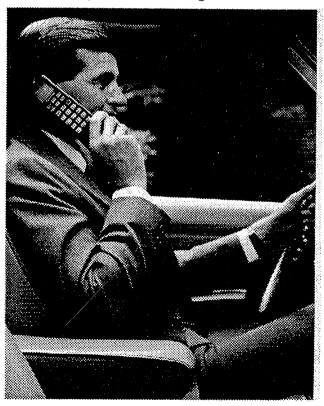
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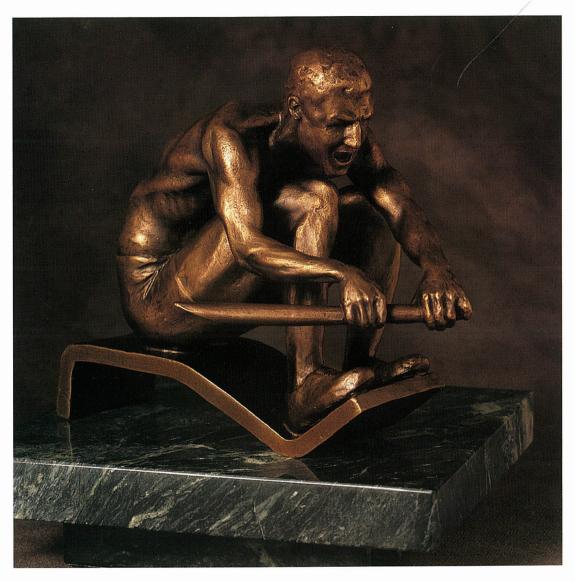
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Men's Division

- 1 Craftsbury Sculling Center VT
- 2 Undine Barge Club PA
- 3 Palm Beach Rowing Assn FL
- 4 Thames River Sculls CT
- 5 Belmont Hill RA MA
- 6 Riverside Boat Club MA
- 7 Fredericton RC Canada
- 8 Ridley Graduate BC Canada
- 9 Durham BC NH
- 10 Yale Old Fellows Rowing Assoc CT
- 11 Bachelor's Barge Club PA
- 12 Narragansett Boat Club RI
- 13 Malta Boat Club PA
- 14 Kingston Rowing Club Canada
- 15 University Barge Club PA
- 16 Detroit BC MI
- 17 Housatonic Rowing Assn CT
- 18 Rocky Mountain Rowing Club CO
- 19 Newport Aquatic Center CA
- 20 Union Boat Club MA
- 21 Rude and Smooth Boat Club NY
- 22 New Haven Rowing Club CT
- 23 Yankee Rowing Club MA
- 24 Penn A C Rowing Assn PA
- 25 London Rowing Club Canada
- 26 Capitol RC DC
- 27 Sagamore Rowing Assn NY
- 28 Ottowa Carlton Rowing School Canada
- 29 Fairmount Rowing Assn PA
- 30 Merrimac River Rowing Assn MA
- 31 MIC MAC Amateur A C Canada
- 32 Tampa Rowing Club FL
- 33 Minneapolis Rowing Club MN

Masters

- 34 Johns Hopkins University MD
- 35 Alte Achter BC MA
- 36 Cambridge BC MA
- 37 Oneida Boat Club NJ
- 38 Independence Rowing Club NH
- 39 California YC Rowing CA
- 40 Pomfret School CT
- 41 Western Reserve Rowing Assoc OH
- 42 Amoskeag RC NH
- 43 Leander Boat Club Canada
- 44 Saratoga Springs RC NY
- 45 Chicago River Aquatic Center IL

Women's Division

- 46 Vesper Boat Club PA
- 47 Newport Aquatic Center CA
- 48 1980 RC MA
- 49 Philadelphia Girls RC PA
- 50 Yankee Rowing Club MA
- 51 Cal Poly Crew CA
- 52 Don RC Canada
- 53 Sagamore Rowing Assn NY
- 54 Cascadilla BC NY
- 55 Portland Rowing Club OR
- 56 Boucherville Club D'Aviron de Canada
- 57 Merrimac River Rowing Assn MA
- 58 Three Rivers Rowing Assoc PA

Masters

- 59 Empire State Rowing Assn NY
- 60 Atlanta RC GA

1989 Winners: Craftsbury Sculling Center (M) Vesper Boat Club (W)

Men's Record: 16:24 (Harvard, 1984) Cromwell Trophy

Women's Record: 18:19.9 (Victoria City, BC, Canada 1984) Swayze Trophy

Men's Division

- 1 Charles River RA MA
- 2 Princeton University Rowing Club NJ
- 3 Penn A C Rowing Assn PA
- 4 Rude and Smooth Boat Club NY
- 5 Power Ten of New York NY
- 6 Boston Rowing Center MA
- 7 Northeastern University MA
- 8 University of Pennsylvania PA
- 9 Bulldog RC NJ
- 10 Palm Beach Rowing Assn FL
- 11 Atlanta RC GA
- 12 Don RC Canada
- 13 Cal at Berkeley University of CA
- 14 Brown University RI
- 15 US Naval Academy MD
- 16 US Coast Guard Academy CT
- 17 Univ of Texas Men's Crew TX
- 18 University of Wisconsin WI
- 19 Temple University PA
- 20 Hofstra University NY
- 21 Columbia University NY
- 22 University of Florida FL
- 23 Boston University Extra Entry

Masters

- 24 Fairmount Rowing Assn PA
- 25 Occoquan Boat Club VA
- 26 Yale Old Fellows Rowing Assoc CT
- 27 Compote RA PA
- 28 New Haven Rowing Club CT
- 29 Lake Washington R C WA
- 30 Potomac Boat Club DC
- 31 Norwalk River Rowing Club CT
- 32 Syracuse Chargers NY
- 33 Willmington Rowing Club DE

Women's Division

- 34 Boston Rowing Center MA
- 35 Vancouver Rowing Club Canada
- 36 University of Wisconsin WI
- 37 Johns Hopkins University MD
- 38 Dartmouth RC NH
- 39 Radcliffe College MA
- 40 Mount Holyoke College MA
- 41 Northeastern Univ Extra Entry
- 42 Argonaut RC Canada
- 43 Princeton University Rowing Club NJ
- 44 College BC PA
- 45 University of Washington WA
- 46 Community Rowing Extra Entry
- 47 Boston University MA
- 48 Potomac River Dev Center VA
- 49 Winnipeg Rowing Club Canada
- 50 Boston 'T' Club MA
- 51 Empire State Rowing Assn NY
- 52 McGill University R C Canada
- 53 Smith College MA

Masters

- 54 Lakeside School/Martha's Moms WA
- 55 Hanlan Boat Club Canada
- 56 Farmington Valley RA CT
- 57 Sagamore Rowing Assn NY

58 Fredericton RC Canada

1989 Winners: Charles River RA, (M) Boston RC (W) Men's Record: 15:39.9 (Vesper BC, 1984) Circle of Sports Trophy

Women's Record: 17:59.4 (St.Catherine's RC, 1983) Charles River Trophy

Men's Division

1 A Sudduth Boston Rowing Center MA US Naval Academy MD 2 S Gordon Boston Rowing Center MA 3 J Moulton The Better Motion MA 4 J Gordon New York Athletic Club NY 5 J McGowan 6 G DiSalvo New York Athletic Club NY Ridley Graduate B C Canada 7 J Whittard Undine Barge Club PA 8 J Lewis Thames Rowing Club England 9 B Crawford 10 D Ruane Riverside Boat Club MA Argonaut RC Canada 11 R Blunt New York Athletic Club NY 12 D Brisson 13 A Santry Arlington VA Nottinghamshire Ctv R UK 14 S Larkin Boston Rowing Center MA 15 J Smith 16 R Flemer Penn A C Rowing Assn PA Thames Rowing Club England 17 | Pritchard Penn A C Rowing Assn PA 18 P Howey 19 M Horvat Boston Rowing Center MA New York Athletic Club NY 20 K Teske Western Rowing Club Canada 21 M Forgeron Berkelev CA 22 B Appleyard Ridley Graduate B C Canada 23 J Hampson Ridley Graduate B C Canada 24 B Adams 25 J Quaid Undine Barge Club PA 26 R Cone Thames River Sculls CT 27 J Bouscaren Cambridge MA Thames Rowing Club England 28 G Reddin Allston MA 29 T Erskine Pioneer Valley Rowing Assn CT 30 E Kupa 31 J Amory San Francisco CA Minneopolis MN 32 M Ryan 33 D Swenton Syracuse Chargers NY 34 H Marquardt Argonaut RC Canada New York Athletic Club NY 35 A Rubbo Vassar College Crew Club NY 36 C Martin Narragansett Boat Club RI 37 A Green

Women's Division

38 A O'Brien

39 K Karlson Weston CT 40 C Ernst Cambridge BC MA Riverside Boat Club MA 41 C Ryder 42 S Eddy-Moulton Boston Rowing Center MA 43 G Weimer Buffalo NY 44 L Kunze Riverside Boat Club MA Boston Rowing Center MA 45 M Mazzio Philadelphia Girls RC PA 46 J Hussey 47 D Neill Newport Aquatic Center CA Vesper Boat Club PA 48 S Garner Boucherville Club D'Aviron de Canada 49 A Thibault

Riverside Boat Club MA

50 L Muri Boston Rowing Center MA 51 H Clarke Argonaut RC Canada

Stanford University Crew Club CA 52 C MacKay 53 E O'Rourke New York Athletic Club NY Cincinnati Rowing Club OH 54 J Jewett 55 E Hud Philadelphia Girls RC PA

1989 Winners: G. Walker (M) A. Marden (W)

Men's Record: 17:29.8 (J. Biglow, 1982) Curtis Trophy

Women's Record: 18:45.6 (V.Gilder, 1982) Cambridge Boat Club Trophy

1989 Winners: Penn ACRA (M) Boston RC (W)

Men's Record: 14:24.2 (US Naval Academy, 1982) Boston Globe Trophy

Women's Record: 18:45.6 (V.Gilder, 1982) Governor's Cup

Men's Division

1 Penn A C Rowing Assn PA

2 Nottingham County R A England

3 University of Pennsylvania PA

4 US Naval Academy MD

5 Northeastern University MA

6 University of Wisconsin WI

7 Brown University RI

8 1980 RC MA

9 Harvard University MA

10 Temple University PA

11 Cornell University NY

12 Yale University CT

13 Boston University MA

14 Williams College Boat Club MA

15 Cal at Berkeley University of CA

16 Rutgers University NJ

17 Bulldog RC NJ

18 Alte Achter BC MA

19 Middlesex Western RC CA

20 Syracuse University NY

21 Syracuse Alumni Rowing Assn NY

22 Princeton University Rowing Club NJ

23 S.A.S.T. Lithuania

24 College BC PA

25 University of Toronto Canada

26 Onota Lake Rowing Club MA

27 Wide Load Boat Club ME

28 Community RC MA

29 New York Athletic Club NY

30 Wesleyan University CT

31 Northeastern Univ Rowing Assoc MA

32 Dartmouth RC NH

33 Cal at Davis University of CA

34 Univ of New Hampshire NH

35 Univ of Massachusetts MA

36 Georgetown Univ Rowing Assn DC

37 Connecticut College CT

38 Drexel University PA

Women's Division

39 Boston Rowing Center MA

40 Cornell University NY

41 1980 RC MA

42 Princeton University Rowing Club NJ

43 University of Wisconsin WI

44 Syracuse University NY

45 Brown University RI

46 Yale University CT

47 Boston University MA

48 Morningside Rowing Assn NY

49 Radcliffe College MA

50 Mount Holyoke College MA

51 Northeastern Univ Womens Crew MA

52 Wellesley College MA

53 Univ of New Hampshire NH

54 Univ of Massachusetts MA

55 Williamstown Boat Club MA

56 Smith College MA

57 Raritan Valley Rowing Assn NJ

58 Connecticut College CT

59 Vesper Boat Club PA

60 Temple University PA

61 Simmons College MA

62 Middlesex Western RC CA

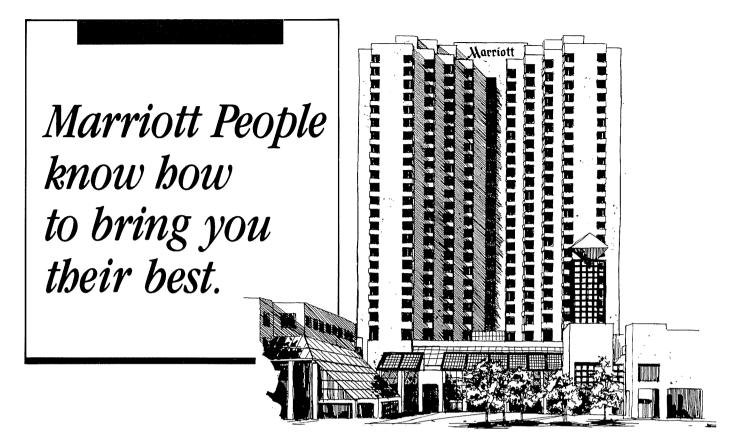
63 S.A.S.T. Lithuania

64 University of Pennsylvania PA

65 George Washington Univ DC

66 Itaewon Rowing Club MA

67 University of Lowell MA 68 Syracuse Alumni Rowing Assn NY



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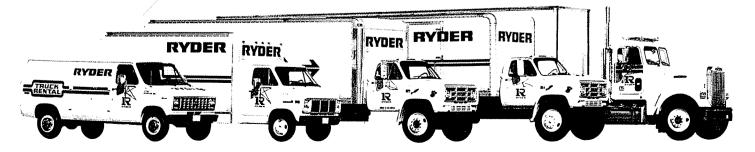
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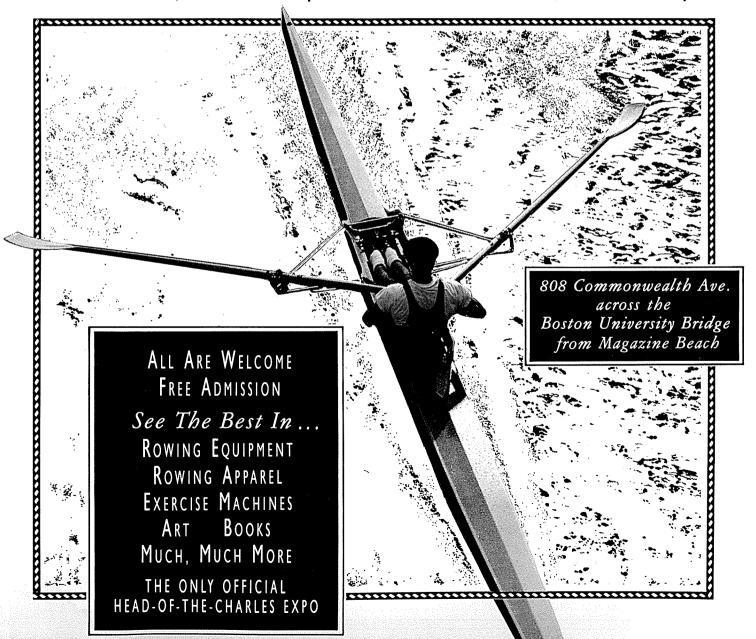
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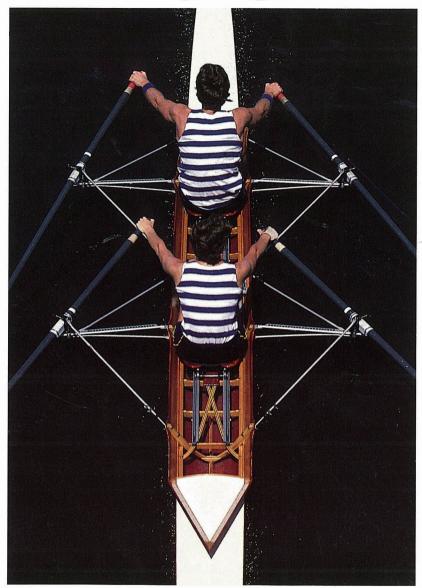
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