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SKATING

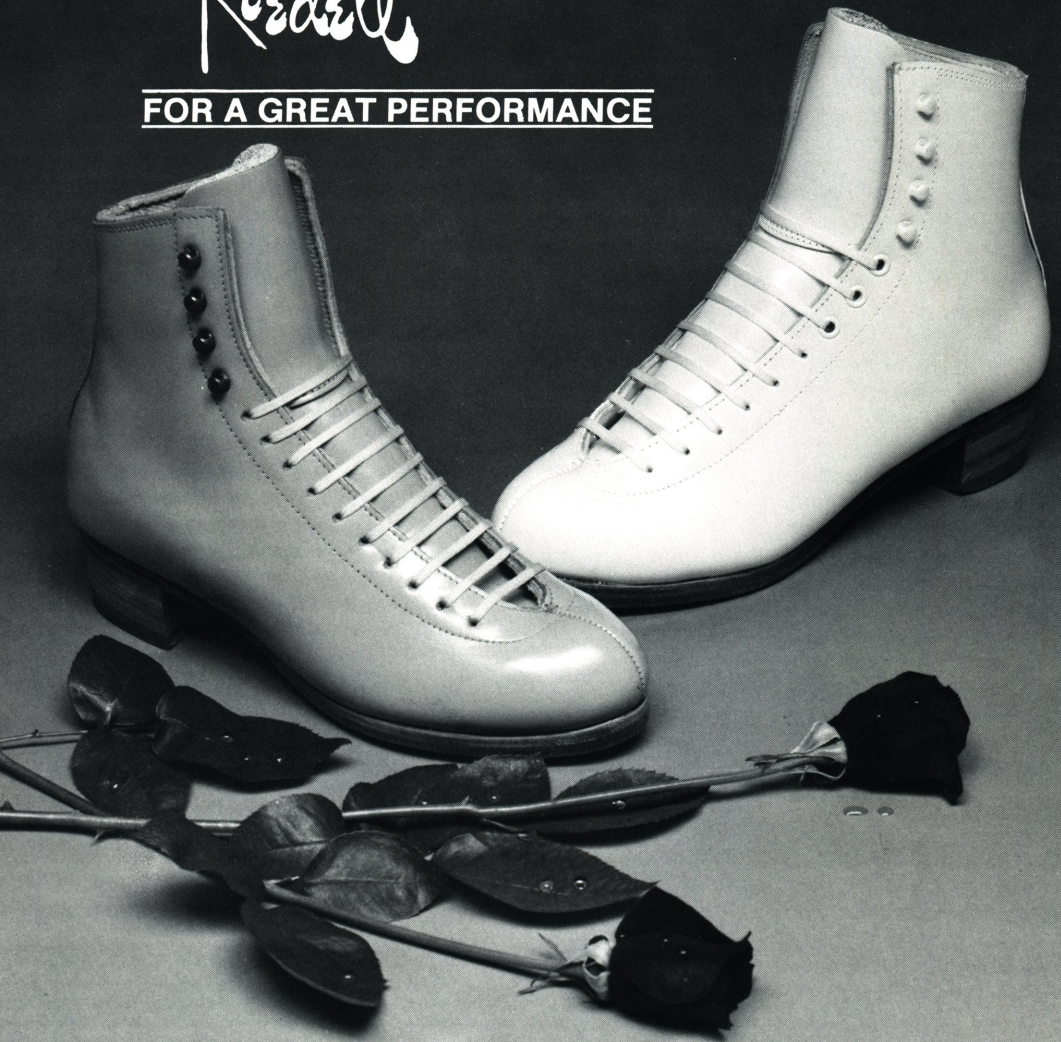


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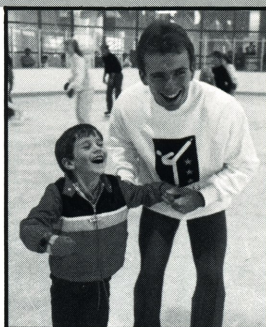
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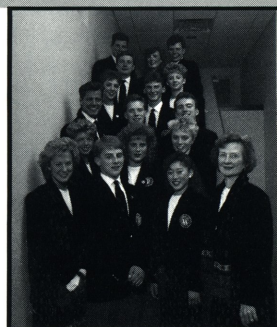
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Skating

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Group A Member

NEWS BRIEFS

Those planning to attend the 1989 U.S. Championships in Baltimore should be aware when making travel plans that the Exhibition of Champions will be held on Sunday evening, February 12, at 7:30 P.M., instead of at the usual afternoon time. Live telecasts on ABC are planned for the Senior Ladies' and Men's finals on Saturday and Sunday afternoon, making the change necessary.

☆ ☆ ☆

Numerous ice skaters started in roller skating and vice versa. It is seldom that anyone continues to compete in both. Marina Kielmann of the Federal Republic of Germany is doing just that. After a 10th place finish at the Calgary Olympics and a 12th place finish at the 1988 World Championships in ladies singles figure skating, Marina captured the bronze medal in combined figure and freestyle at the World Roller Skating Championships held in Pensacola, Florida, in October.

☆ ☆ ☆

From November 16 to December 10, Festival on Ice will be playing at the Hirshfeld Theater in the new Castle Resort Hotel in Miami. Headliners include Scott Hamilton and Randy Gardner the first two weeks, followed by John Curry and Randy Gardner the last two weeks. Additional engagements for the show are being planned and will be announced later, including the annual Lake Tahoe appearance.

☆ ☆ ☆

Happy New Year U.S.A., public television's 2-hour New Year's Eve special will feature John Curry,

JoJo Starbuck, Katherine Healy, and the innovative ice dancing troupe, The Next Ice Age. The holiday special airs live and in stereo on PBS stations nationwide, Saturday, December 31 at 10:00 P.M. Eastern. (Check your local listings.)

Originating from Baltimore (site of the 1989 Nationals), the show will culminate with a lavish fireworks display over the city's Inner Harbor. The Next Ice Age is an ensemble of five skaters, recently founded by former member of the John Curry company, Nathan Birch. They are based in Baltimore. The TV show will also feature Mel Torme, Rosemary Clooney, Glenn Miller Orchestra, and dancers from the American Ballroom Theatre.

☆ ☆ ☆

On Thursday, December 29, ABC has scheduled a special holiday treat. The Ice Capades with Kirk Cameron (star of *Growing Pains*) will air from 8:00 to 10:00 P.M. Eastern time. The production will include performances by Scott Hamilton, Debi Thomas, Elizabeth Manley, Kitty and Peter Carruthers, and the Ice Capades chorus, along with guests Rita Moreno, Allyce Beasley, and The Jets adding comedy, music, and dancing. If Olympic and World medalists are not enough, the show will feature skating vignettes with the California Raisins and the

Smurfs, for a delightful evening's entertainment.

☆ ☆ ☆

The holiday season will offer a variety of skating on TV, and don't forget the Skate America Exhibition on December 19 on ESPN.

☆ ☆ ☆



For the *Guinness Book of Records*: A "first" was probably seen at the 1988 Southwestern Regional Championships held at the Broadmoor. Triplets were entered in the ladies pre-juvenile division. Heather, Kelly, and Jasmine Kayama from Denver who are in the 7th grade were born on May 13, 1976 one minute apart. This marked their debut at a qualifying competition and as far as is known was a first in USFSA history.

☆ ☆ ☆

A more important entry for the record book: at the Japanese National Championships held the first weekend of November, Midori Ito became the first lady to execute a successful tri-

ple Axel in competition! Though she had landed them in practice and came close at Skate America, this is the first officially recognized triple Axel done by a female. In the process she was awarded four perfect marks of 6.0 for technical merit and retained the Japanese Ladies title.

☆ ☆ ☆

According to David Dore of the Canadian Figure Skating Association, discussions are underway concerning the possibility of incorporating a special "fours" competition in future Skate Canada competitions. The event which was once an integral part of figure skating competitions has been flourishing in Canada with great success. Mr. Dore hopes once again to bring this exciting event into international prominence. The last time it was included in U.S. Championships was 1950. If you have never seen fours in competition or exhibition, you are in for a very special treat.

☆ ☆ ☆

Patrick Brault has made the decision to take advantage of his dual citizenship and will be skating for Canada this year. He believes his opportunities for advancement in the national and onto the international scene may be greater in Canada, and he will be skating out of Calgary and the Alberta Section.

☆ ☆ ☆

SKATEOLOGY

THE SCIENCE & TECHNOLOGY OF THE EDGE/ICE INTERFACE

Part II by S. Broadbent

Tapered Blades— Advantage or Disadvantage?

Modern day side honing also causes a variation in the thickness of the blade, i.e., the width of the skating surface is tapered. On some models of skates the thickest portion of the blade lies more or less central along the length of the blade. In others it is at the front but never at the rear. Is there some specific advantage or is it merely incidental to the linear method of side honing? We do know that it is usually very inaccurate and a primary cause of sharpening problems!

MK Models (Phantom, Gold Star, Gold Test, and AB Specials) seem almost invariably to be the thickest centrally, tapering thinner toward front and rear. Wilson's Gold Seal blades usually measure thicker at the front, tapering non-uniformly towards the rear while their Hans Gerschwiler model is thickest at the center. Strauss models exhibit both of these traits. The reason for this is that the side honing on these blades does not follow the rocker profile. The axes of the virtual cylinders that form the concavities are linear as shown in Figure 8. Consequently, when the rocker profile is superimposed on these cylinders as illustrated, a non-uniform blade width is realized. The thickest part of the blade will occur at that point along the length of the blade where the axis of the side honing lies parallel to a tangent to that particular point. The approximate location of the tangents for "thick-at-front" and "thick-at-center" varieties are illustrated in Figure 9.

An important question now arises. Were these geometries devised to enhance skatability or were they merely incidental to the fact that it is easier during blade manufacture to traverse the "honing" tool along a linear path than around the curved path of the rocker profile? (Bear in mind that the functional and aesthetic design of products we use in every aspect of daily life are to a very great extent determined by the convenience or limitation of manufacturing processes. In fact, the reason our "hollow" sharpening is of circular shape is because a circular profile is the easiest configuration to apply to the periphery of a grinding wheel.) The latter

would indeed appear to be the situation since neither manufacturer identifies the specific advantages of the tapering blade feature. In this regard it is significant to note that MK discontinued the full length tapering of their Professional model years ago and that the simulated side honing on their new Phantom Special by following the rocker contour also eliminates taper.

From a skating viewpoint this linear side honing seems to offer only disadvantages especially in regard to sharpening. The reason for this is that the edges, although basically tapered, meander nonsymmetrically with respect to the center plane of the blade due to non-symmetry of the side honing, see Figure 10. The Strauss blades were the worst in this respect as indicated in the graph of Figure 11 of a randomly selected blade. This graph plots blade thickness as the ordinate (vertically) disposed about the centerplane of the blade with blade length forming the abscissa (horizontal co-ordinate). Blade tapering is obviously achieved but the resulting edge inaccuracies are ludicrous. The right blade of the pair showed equal magnitude of error but totally different edge profiles.

Such irregularities prevent any possibility of achieving a truly accurate sharpening. The non-uniformity of these side honing irregularities from blade to blade complicates the issue still further. The optimum approach on the part of the sharpener is to average the errors between the two edges, a tedious and time consuming task and many sharpening machines do not offer the facility for doing this. Inaccuracy causes the bite angle to vary along the length of the blade and although the skater can adjust to a moderate variation without too much problem, large variations can be devastating such as when one sharpener reverses the inaccuracies of a previous sharpener.

Ironically, these most expensive (side honed and tapered) blades usually involve dimensional perturbations that prevent accurate sharpening and at the same time preclude any practical method for precise measurement of the inaccuracy. (Dimensional analyses as typified in Figure 8 involved

FOR MANUFACTURING CONVENIENCE A LINEAR AXIS IS USED FOR SIDE HONING - RESULTS IN A TAPERED OR DOUBLE TAPERED BLADE, THICK AT CENTER AS ILLUSTRATED.

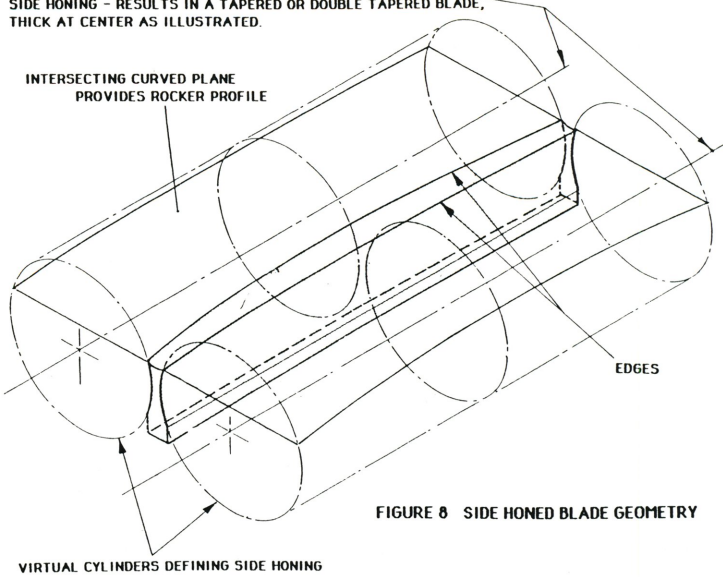
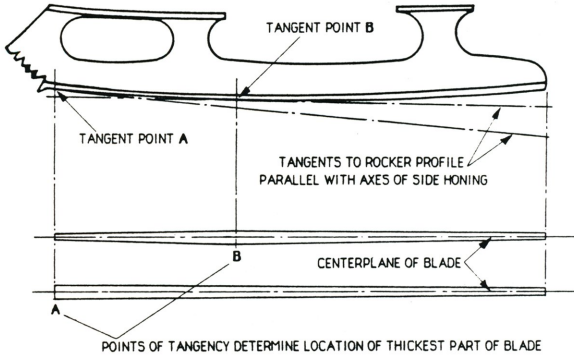
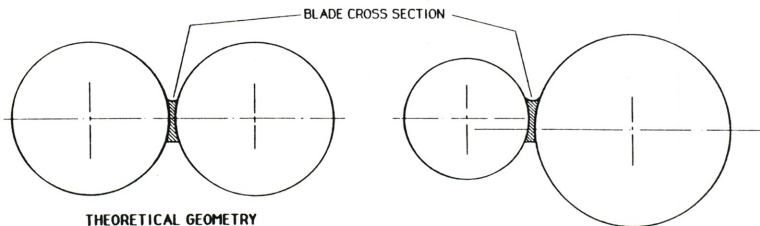


FIGURE 8 SIDE HONED BLADE GEOMETRY



EDGES WILL MEANDER RANDOMLY AS INDICATED IN FIGURE 11

FIGURE 9 BLADE THICKNESS VARIABILITY



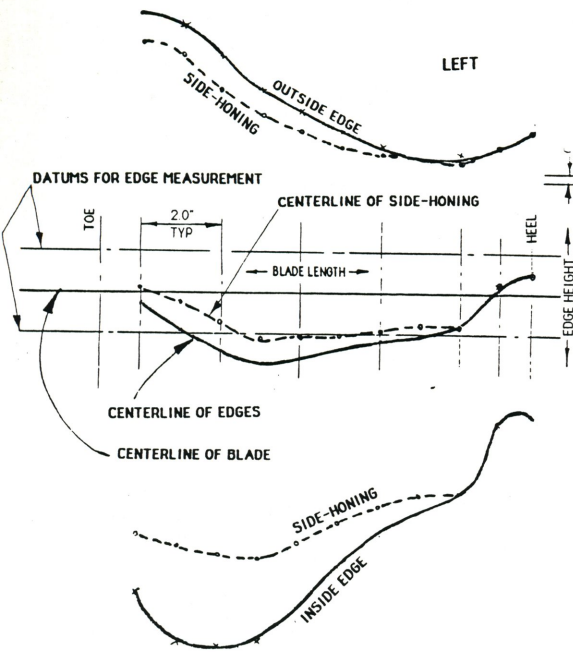
SHOWING TYPICAL EFFECT OF MACHINING VARIABLES. (EXAGGERATED)

- 1 DIFFERENT RADII OF HONING ON EITHER SIDE
- 2 CENTERS OF SIDE HONINGS DISPLACED
- 3 AXES OF SIDE HONING NOT ALIGNED

FIGURE 10 EFFECT OF SIDE HONING VARIABLES

ADVERSE EFFECTS:

- A EDGES ARE NON-SYMMETRICAL ABOUT CENTERPLANE OF BLADE
- B IMPOSSIBLE TO ACHIEVE AN ACCURATE SHARPENING



THE EDGE INACCURACIES DEPICTED ABOVE ARE NOT DUE TO SHARPENING, THEY RESULT FROM MANUFACTURING IRREGULARITIES INCURRED DURING SIDE HONING. THIS PROBLEM DOES NOT ARISE ON FLAT SIDED BLADES.

FIGURE 11 SIDE-HONED BLADE INACCURACIES: STRAUSS

toolroom equipment and time consuming mensuration procedures.) Equally ironical is the probability that the lower cost, flat sided blades—devoid of these idiosyncracies—function equally well if not better!

The perfect sharpening (edge levelness with 0.25°) which is easily verifiable on flat sided blades enables the skater to return to the ice without any adjustment of technique whatsoever—immediate adaptation!

Let us examine the effect on bite angle of a typical amount of blade taper which averages about 0.017". Assume the blade is manufactured from 0.155" nominal thickness plate which determines the maximum width of the skating surface. Using the equations derived in my previous (1983) *Skating* magazine articles and assuming no dimensional irregularities due to side honing, it can be determined for a typical 1/2" freestyle Radius of Hollow (ROH) and an accurate sharpening, that the bite angles will vary from 8.9° at the thickest part of the blade to 7.9° at the thinnest part of the blade, equivalent to changing the ROH from 1/2" to 9/16" throughout the length of a uniform thickness blade. It is difficult to believe that this offers any advantages, after all, as indicated in the graph of Figure 12, elite USFSA skaters of every weight level are skating on ROHs varying from 5/16" thru 7/8", a bite angle variation from 5° thru 11°.

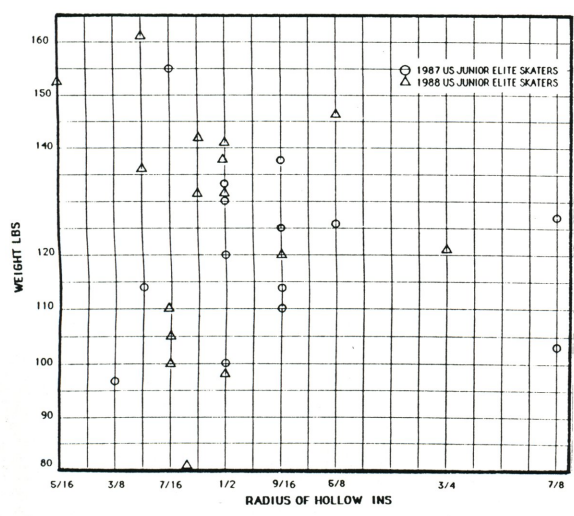


FIGURE 12 RADIUS OF HOLLOW DISPERSION VERSUS SKATERS WEIGHT US JUNIOR ELITE SKATERS 1987/8

Primary Rocker Profile Inaccuracies

Even on the highest quality skates right out of the box, the primary rocker radius (which we have assumed to be constant), fluctuates as much as +100% to -40% throughout its length. The blade manufacturer conscientiously applies the advertised radius but only as an average throughout the affected length. Manufacturing tolerances permit local variations but then that is what we actually skate on—just a local portion of the overall blade length. How critical are these perturbations? Will improved accuracy enhance performance?

These are very difficult questions. Maybe we should respond with a question. Has there ever been methodical testing of controlled geometry blades at controlled ice conditions by a cross section of expert skaters with the results being responsibly documented?

Some patch coaches are very vocal on this question but never offer methodical repeat-

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able test results. However, that is an engineering/research function and patch coaches usually are not engineers. Nor can the skate manufacturers provide this information as they are relatively small companies with minimal research budgets.

Secondary Rocker Profile Inaccuracies

The non-circular portion of the rocker adjoining the toe pick which is so important to jumping and spinning can quickly lose contour and positional relationship to the drag tooth during the course of several sharpenings—unless it is very carefully sharpened. But, what is the optimum contour and positional relationship and how should it be varied with skating mode? Is this geometry sensitive to variations in physique?

This non-circular, "secondary" portion of the rocker profile varies slightly among premium quality freestyle blades with each having it advocates and championship successes. We can therefore assume that the average profile as it comes from the manufacturer is very close to optimum so this is not the problem. The real problem is that this profile is very prone to degradation by faulty sharpening. The low drag tooth on this type of blade is partially to blame in that many sharpeners especially those with large wheel machines, are apt to plunge the wheel quite vigorously in behind the toepick when starting a cut. This erodes the profile quite severely and quickly produces the classic sharpening fault—an actual hollow in this forward zone and a hump immediately behind the toe pick.

One solution to this might be a detachable toe pick that could be removed before sharpening. This would enable the sharpener to softly engage the blade to the wheel as can be done on patch blades.

Chrome Relief Inadequacies

The chrome relief process on many models of blades is of inadequate depth and width and often leaves a layer of the underlying nickel plating still intact. This prevents a truly keen edge of hardened steel being realized during the lifetime of the blade. Localized chipping of the nickel plating adjacent to the edge exacerbates this problem. *Note: The following alphabetical references of Figure 6 (provided in Part I in November issue) commences with 'a' to the left identifying the Wilson/Winslow mid-1800's blade.*

Continued on page 45



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25-YEAR JUDGES

The following judges have served the USFSA for twenty-five years or more. Their names were received too late to be included in the November issue honoring these members for their dedicated service. We offer a sincere thank you and congratulations to the following:

- Grace A. Moore,
Essex SC of New Jersey
- Katrine D. Neile,
Olde Monmouth SC
- R. Chase McDaniel II,
Philadelphia SC & HS
- Yvonne S. Tutt,
Broadmoor SC
- Virginia S. Luttenton
Kent SC
- Mrs. Joanne Harvey,
Utah FSC

CLARIFICATION OF CHARLESTON OSP

Either 2/4 or 4/4 time of 55-56 bars per minute will be allowed in the 1988-89 Original Set Pattern dance, the Charleston.

—Josephine Lawless
Chairman, Competitions Committee

CLARIFICATION OF REQUIREMENTS TO ENTER JUNIOR DANCE

Only dance couples of which both partners have passed two dances of the USFSA Pre-Gold Dance Test and Silver Free Dance Test, or who have passed the USFSA Gold Dance Test and any International Dance Tests

and the Silver Free Dance Test shall be eligible for entry in the Junior Dance event.

—Josephine Lawless
Chairman, Competitions Committee

CLARIFICATION OF TESTS JUDGED BY INTERMEDIATE TEST JUDGES

JR 3.031 on page 199 of the 1988-89 Rulebook is *not* consistent with the authorization chart on page 210. JR 3.031 should read as follows: "Preliminary through the Fifth Figure Tests, Preliminary through the Novice Free Skating Tests and the Preliminary through Novice Pair Tests."

—Gale Tanger
Chairman, Judges Committee

REQUIRED DANCE SEQUENCES

The USFSA will follow ISU rules regarding the number of dance sequences required in qualifying competitions, effective October 1. Since the number of dance sequences skated during tests has already changed, the following comparison is for your convenience:

DANCE	USFSA COMP.	USFSA TESTS
Tango Romantica	2	2
Ravensburger Waltz	2	2
Yankee Polka	2	2
Rhumba	4	3
Starlight Waltz	2	2
Argentine Tango	2	2
Quickstep	4	3
Westminster Waltz	3	2
Viennese Waltz	3	2
Paso Doble	3	3
Blues	3	3
Kilian	4	4
Rocker Foxtrot	4	3
Tango	3	3
American Waltz	2	2
Foxtrot	4	3
European Waltz	2	2
Fourteenstep (one roll)	4	3
Ten Fox	3	3
Willow Waltz	3	3
Fiesta Tango	3	3
Swing Dance	2	2
Canasta Tango	3	3
Dutch Waltz	3	3

JUDGES' APPOINTMENTS

LOW FIGURE TEST

Michael Barsotti, Great Falls FSC

INTERMEDIATE FIGURE TEST

Linda Chihara, Lakewood WC

Dr. Scott Cramer, Broadmoor SC

Lee Gardner, Kansas City FSC

Marilyn Moyer, Utah FSC

Rita Womack, La Jolla FSC

HIGH FIGURE TEST

Aileen Arenson, La Jolla FSC

Janice Kindrachuk, Skokie Valley FSC

GOLD TEST

Carol Weier, Rockford FSC

BRONZE DANCE TEST

Dorothy Bragle, Pittsburgh FSC

Linda Chihara, Lakewood WC

Jennifer Helfrich, Penguin FSC

SILVER DANCE TEST

Melissa Stockwell, Smithfield FSC

GOLD DANCE TEST

E. Richie Van Vliet, Genesee FSC

JUNIOR COMPETITION

Carolyn Haman, Dallas FSC

JUNIOR DANCE COMPETITION

E. Richie Van Vliet, Genesee FSC

INTERMEDIATE DANCE COMPETITION

Mr. Lynn Feldman, South Bay FSC

Caroline Guttman, Los Angeles FSC

JUDGE EMERITUS

Anthony Canal, Brentwood FSC

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CAMPBELL'S SOUPS 1989 SPORTS MEDICINE SEMINAR

Campbell's Soups Annual Sports Medicine Seminar will be an official function of the upcoming U.S. Figure Skating Championships in Baltimore. The Campbell's Seminar panel will feature sports medicine professionals that are renown experts in their fields. 1989 marks the sixth year Campbell has sponsored the event.

To assure that all competitors, parents, and coaches will be able to attend, the Seminar will be held on Friday, February 10 from 9:00 A.M. – 12:00 NOON at the Omni Hotel in Baltimore. This is the only Nationals event scheduled for Friday morning. A mid-morning soup/juice break will be included.

The seminar is free for competitors, their parents, coaches, and other interested individuals. Advance registration is recommended.

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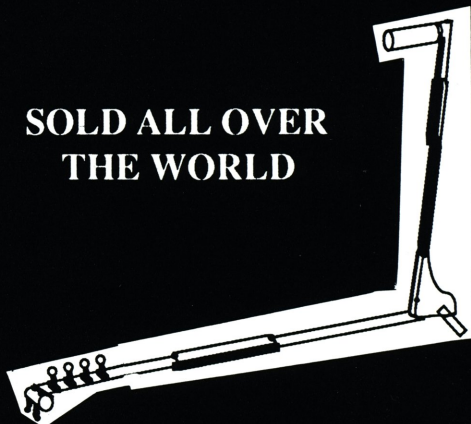
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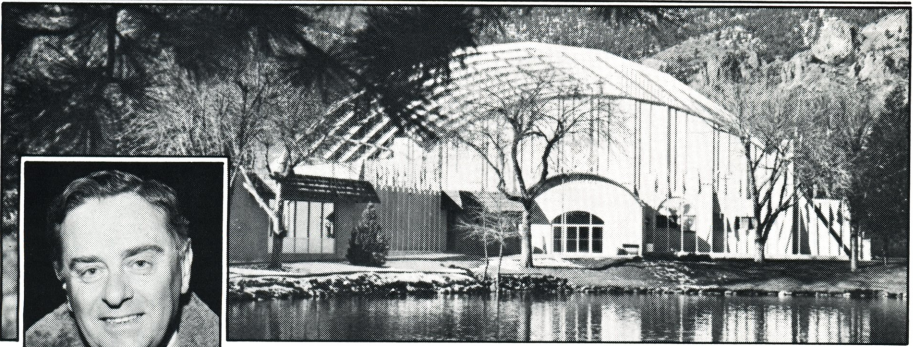
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Upcoming Special Events:

December 14-18, 1988 — Broadmoor Christmas Pops on Ice

February 17 - 20, 1989—Pikes Peak Amateur Hockey Association Tournament

March 31, 1989—United States Boxing Championships

June 5 - July 1, 1989—Summer Session I

July 3 - 29, 1989—Summer Session II

August 2 - 6, 1989—51st Annual Broadmoor Ice Revue

August 7 - September 2, 1989—Summer Session III

November 28 - December 2, 1989—World Junior Figure Skating Championships

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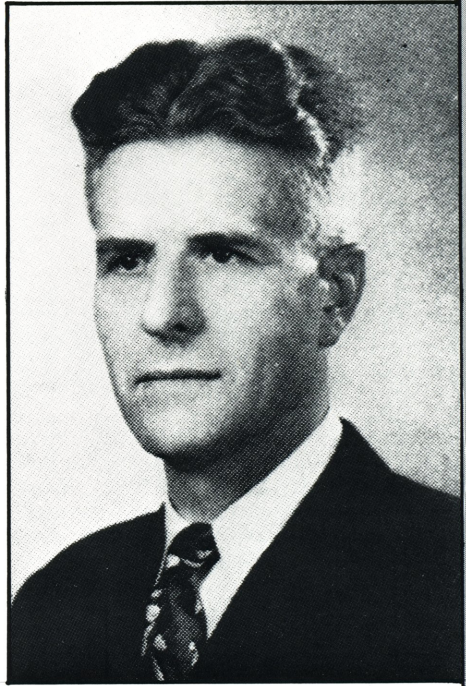
The Association membership was greatly saddened to learn of the passing of USFSA Past President Kenneth L. Brown on October 13 following a lengthy illness in Red Bluff, California. He was 87 years old.

Brown first took up figure skating at the age of 39 at the East Bay Iceland in Berkeley, California, home of the St. Moritz Ice Skating Club. He was an ice dancing enthusiast and had passed the Bronze Dance Test. He soon became involved in the administrative affairs of the club. Through the following years, he served on nearly every committee and also held almost every club office, including that of President for six years. In honor of his dedicated service, the St. Moritz ISC bestowed upon him the title of Honorary Club President.

On the national level, Brown also became an active volunteer with the USFSA. He served as Chairman of a number of committees, including the Carnival and Exhibitions Committee in 1950, the Pacific Coast Committee 1951 to 1953, Amateur Status Committee 1953 to 1955, as well as the first Chairman of the Museum Committee, 1964 to 1965.

He was also a member of the Board of Directors from 1957 to 1962 and again from 1963 to 1967. Brown served as Second Vice President of the USFSA in 1952 to 1953 and as President from 1955 to 1958. In addition, he was also appointed a National Accountant in 1953, a National Referee in 1959 and served as Team Manager for the 1958 World Team.

Kenneth Brown was a graduate of the University of California where he ma-



Kenneth L. Brown 1901-1988

jored in economics and anthropology. He was a man of many interests who particularly enjoyed fishing, golf, and tennis. In addition, he was also an accomplished violinist.

He is survived by his wife Shrylie and two children, Kenneth Jr. and Patricia. The Association honors the memory of one of its most dedicated members and expresses its very sincerest sympathy to the family.

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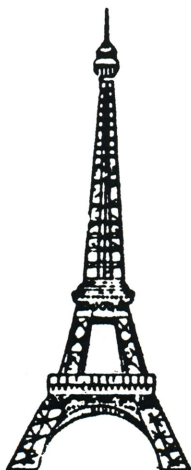
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M A G A Z I N E

65th Anniversary



December 1988 marks the 65th anniversary of the publication of the first issue of Skating magazine. The cover of this month's issue is a reproduction of the cover of the first issue. The early history of the magazine is preserved in the writings of Theresa Weld Blanchard, the magazine's first editor.

Following the formation of the United States Figure Skating Association in 1921, it soon became evident that an official bulletin was needed to circulate news of the sport and all official rulings to the membership. In the fall of 1922, a Publications Committee was appointed which consisted of Paul Armitage,

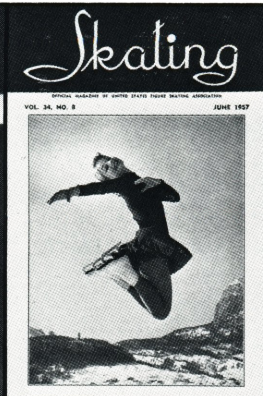
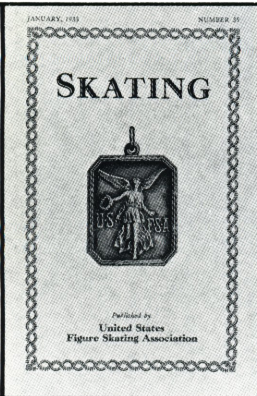
Chairman, Edith Rotch, and Theresa Weld Blanchard.

With no funds available for such a publication, Nathaniel Niles and Mrs. Blanchard wrote letters soliciting money. With a total budget of \$300 they began work on the first issue. The publication office was established in Mrs. Blanchard's home since no official office space was available. Knowing nothing about printing methods, the text for the first issue was set on a hand press. The result was disastrous and had to be thrown away, except the covers. It was then taken to a commercial printer and produced properly.

The first issue was sent free to 500 people—members of the Association clubs—in December 1923 along with subscription blanks. Sufficient subscriptions were received to warrant publication of two more issues that year. The season ended with a \$157 deficit.

Despite numerous and varied difficulties, the magazine has been published every year since 1923. As a matter of record, it was the *only* official skating publication to appear regularly throughout World War II and was sent to members overseas serving in the armed forces.

The same year that *Skating* began was also significant for the Association. In 1923, the USFSA was accepted into membership of the European Figure Skating Association (Internationale Eislauf Vereinigung), recognized by the



Olympic Committee, and entered the World Championships for the first time.

Through the years, the magazine has increased the number of issues per year, from three to six to ten. There has been a great increase in the number of pages per issue as the need for more space arose as well as the addition of full color.

The original cover design remained the same until 1935, with only a change of colored paper. It was then replaced with a royal blue border cover, which remained the recognizable constant color until 1935, when a turquoise color was introduced. This was later replaced with a black band and then a white band.

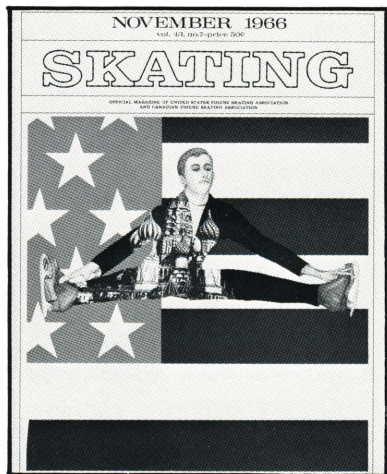
The first full-color cover appears to have been in April 1976, featuring Dorothy Hamill with her Olympic gold medal. Regular colored photographs on the cover did not begin until the following October and have continued ever since.

The format size of *Skating* for all general purposes has remained constant over the past sixty-five years, with the exception of 1966 to 1969, when a new 8 1/2 by 11 inch format was introduced. It evidently did not meet with favorable response from subscribers, who still preferred the smaller format, and in November 1969, *Skating* returned to its original size which has been maintained ever since.

For the first 24 years, the original subscription price remained the same at

\$2.00 a year. In 1948, it was raised to \$3.00, which held until November 1960 when a price increase pushed the subscription rate to \$4.00. In 1969, it mysteriously fell to \$3.50, then later raised to \$4.70 to \$7.50 and eventually to \$12.00 in October of 1982. This price held constant for six years, until October of this year, when increased production costs forced an increase to \$15.00. Throughout the years, *Skating* has been economically priced, so all skating friends and competitors could enjoy it. Compared to most other publications on the stands, it is still one of the best buys available.

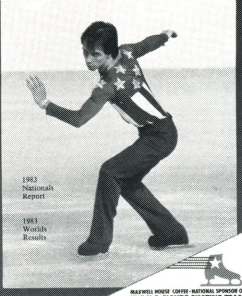
In 1941, *Skating* also became the official publication of the Canadian Figure



APRIL 1983
SKATING



Skating
MAGAZINE



1983 Nationals Report
1983 Worlds Results
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NOVEMBER 1989

Skating



1989 Nationals, Baltimore

Skating Association. For the next 27 years, it carried information on all Canadian events and competitors, until that Association formed its own publication.

The editors through the years have included Mrs. Blanchard, Robert Y. Ellis, Marjorie Martin, Laura Kaplan, Karen S. MacDonald, Barbara R. Boucher, Gregory Smith, Ian A. Anderson, and currently, Dale Mitch.

Mrs. Blanchard, affectionately known as "Tee," was editor of *Skating* for forty years, from 1923 to 1963, and served in the capacity of advisor and Editor Emeritus until her death in 1978, at the age of 84. Not only was she the founder but the guiding light behind the definitive publication on figure skating in North America. She has aptly been called the "First Lady of Figure Skating."

She was America's first lady champion in 1914 and again from 1920 to 1924. She was the first North American champion in 1923 and a member of the first formal U.S. Olympic Team in 1920 in which she won America's first Olympic medal in figure skating, the bronze. Mrs. Blanchard was also a member of the 1924 and 1928 Olympic Games and was team official in 1932 and 1936. Additionally, she was nine times U.S. pairs champion, North American pair champion. She was waltz champion three times and also winner of the original dance title. In 1934, she also won the U.S. Fours competition. Her pair and

dance partner throughout her career was Nathaniel Niles. She holds a record unequalled by any other U.S. ladies' competitor. Mrs. Blanchard was elected Honorary Member of the the USFSA in 1963 and named to the Hall of Fame in 1976.

It is to the memory of this very special lady that the Association and *Skating* are forever indebted, and to whom each issue is a living memorial.

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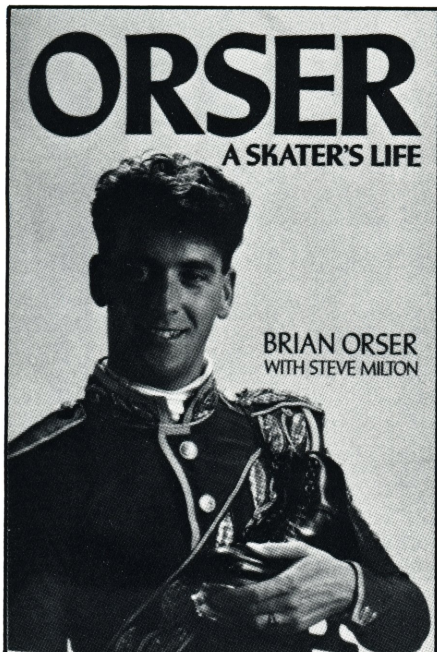
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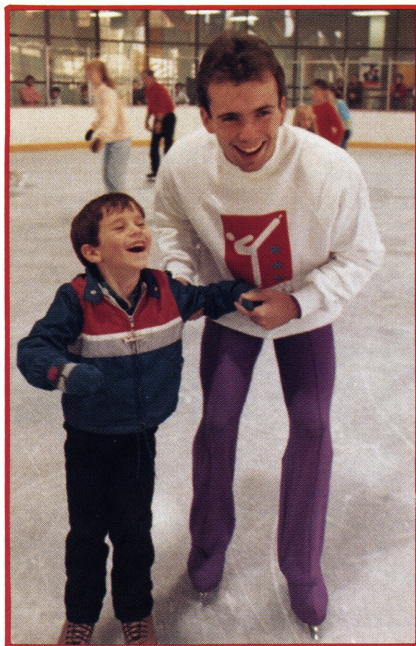
The NutraSweet National Ice Skating Month received national attention and promotion with the cooperation of the U.S. Team members making media appearances in major marketing areas throughout the country.

Indianapolis

The popular sister and brother pair team of Natalie and Wayne Seybold kicked-off the major five city media tour at the Pan American Plaza in Indianapolis on October 7 and 8. The Olympic and World Team members participated in various clinics working with skaters of all ages and presented a special exhibition. They filled numerous interview engagements on both radio and television and received great publicity as the hometown favorites.

Chicago

Jill Trenary added special excitement in her appearances in the Chicago area the same weekend. Jill enthusiastically promoted the benefits and lifelong rec-



PHOTOS COURTESY OF THE NUTRASWEET COMPANY

reational aspects of skating at the McFetridge Ice Arena on Friday and at the Winnetka Ice Arena on Saturday. She was featured on a live remote from McFetridge on the CBS affiliate local news.

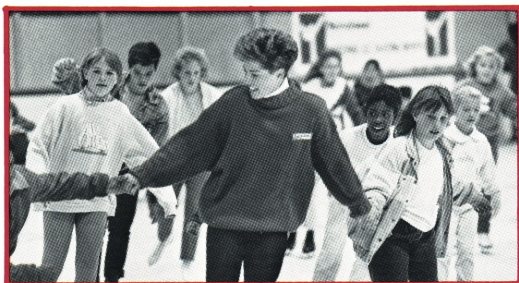
Baltimore

A Friday afternoon ice skating clinic was conducted at the Mt. Pleasant Ice Arena in Baltimore by National Champion and Olympian Suzanne Semanick and her new partner Ron Kravette. The duo helped teach basic moves to youngsters who had never been on the ice and added encouragement to many of those who were already taking lessons. Suzie and Ron's special exhibitions were received with resounding applause.

St. Louis

Tracey Damigella appeared in St. Louis October 14 and 15. She began the day with a live interview on KMOX during the morning rush-hour broadcast.

Continued on page 62





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CANVAS OF ICE

On Monday, December 19, ABC will present a spectacular primetime television special *Brian Boitano's Canvas of Ice* at 8 P.M. EST.

The show will star Boitano with special guests Katarina Witt and Brian Orser, all appearing in their first American television special. Each will perform solo numbers, in addition to which Boitano also will skate a romantic duet with Katarina, and the two Brians will take to the ice together to *King of the Road*. Highlights of the show will include Boitano's new interpretation of "Music of the Night" from *Phantom of the Opera*, along with the popular "Parli Mi d'Amore, Mariu," "Un Amor," and other numbers.

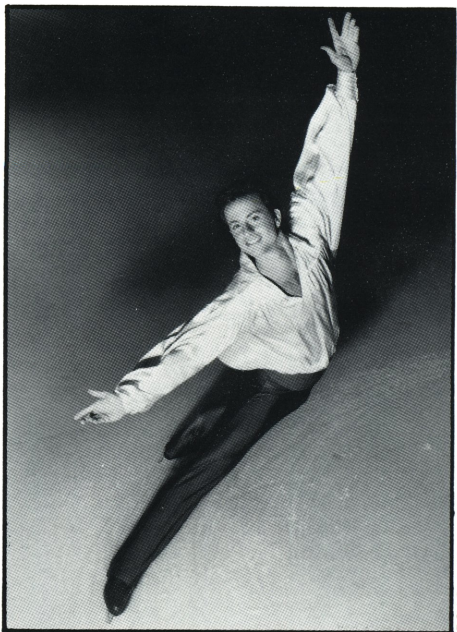
The one-hour special created exclusively for television was a massive international undertaking and not just a standard studio production. It was shot over a two month period in Alaska, Paris, East Germany, and Toronto.

The show was produced and directed by Doug Wilson, and co-produced by Amy Sacks. Meg Streeter is associate producer. (Doug and Meg are well known to U.S. skaters for their dedicated work in past years on ABC Sports telecasts of the National Championships.) The production was choreographed by Sandra Bezic with Linda Leaver as advisor.

Streeter, speaking in Paris between shootings, explained, "The show from the beginning has been Brian's concept and all that we have tried to do is bring the dream to reality. It is a highly stylized, artistic special with no narration. It is unlike any other skating show or special that we have ever done and is a collaboration of some of the best people in the business.

"In some aspects, it has called for super logistical planning. One spectacular sequence was filmed on a glacier in Alaska."

"That was always one of my dreams, to skate on a glacier," Brian explains, "as crazy as it may sound. So I went to Alaska last summer and found an incredible spot about the size of six normal rinks. It is perhaps the best ice I have ever skated on. For the TV show, they had to airlift in two helicopters of equipment and film crews.



ROY BLAKEY

It was *not* an easy shoot, believe me, with the windchill at about 23° below zero, I wasn't sure we would ever be able to get through it. But it is an awesome setting."

For one of the segments shot in Paris, a rink was completely draped with black velour for Katarina Witt's "Hands to Heaven" number, which was shot as a type of music video. In Toronto, Brian will be skating outdoors at the harbor front.

The special significance of *Canvas of Ice* is that it is the first time an American male figure skater has ever had his own television special.

In discussing the title, Brian explains, "When I look at a blank sheet of ice, I think I know what an artist or writer must feel. There is a line in the musical drama *Sundays in the Park with George* by Stephen Sondheim when Georges Seurat speaks about his art. 'Order, design, balance, composition, light, harmony . . .' These are the same things that go into the creation of any work on ice.

"But there is another line at the end of the show I've always remembered and has special personal meaning: 'White—a blank page or canvas—so many possibilities . . .' That's what this show—which is just a beginning—is all about, to continue to explore the possibilities."

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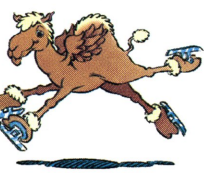


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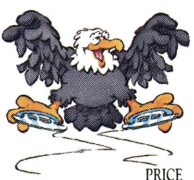
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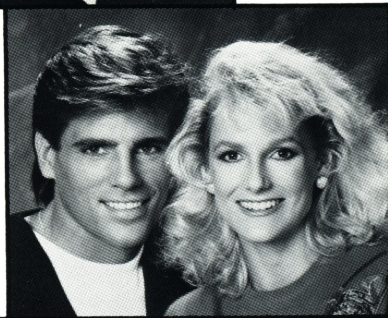
The World Cup of Figure Skating, Canada's first professional competition, will be held December 21 in Ottawa. The event is sanctioned by the Professional Skaters Guild of America (PSGA) and the International Professional Skaters Union (IPSU). Delayed telecasts are scheduled on CTV on December 23 in Canada, and on December 24 on ESPN in the States. Check listings for your local area.

This new event offers a list of outstanding judges. Among them will be Barbara Ann Scott, Canadian, European, and Olympic champion; Maria Jelinek, Canadian, North American, World pair champion (with brother Otto); Don Laws, Olympic and World coach and president of the PSGA; Carole Shulman, Executive Director of the PSGA; Alex McGowan, Olympic and World champion coach; Osborn Colson, World and Olympic coach; and Dorothy Leaman, Canadian national, World and Olympic judge. Referee for the event will be Bruce Hyland, World Professional judge.

A star-studded cast of competitors are headlined by Canadian champion and 1988 Olympic medalist, Elizabeth Manley; 1984 Olympic medalist, U.S. and World champion, Rosalynn Summers; World medalist and U.S. champion, Elaine Zayak; U.S. champion and World medalist, Tiffany Chin; Olympic and European champion, Robin Cousins; U.S. and World champion and Olympic medalist, Charlie Tickner; six-time Canadian champion, Olympic and World medalist, Toller Cranston; Canadian champion and World medalist, Brian Pockar; along with five-time U.S. champion and World medalists Judy Blumberg and Michael Seibert; and Canadian champions and World Professional champions, Lorna Wighton and John Dowding.

Further excitement will be added by U.S. Champions and 1988 Olympic bronze medalists Jill Watson and Peter Oppgaard, as they face off against Canadian and World Champions Barbara Underhill and Paul Martini; along with Lisa Carey and Chris Harrison, World Professional champions.

The event is produced by Marco Entertainment in association with Baseline Productions of Canada.



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A CELEBRATION OF ADULT ICE DANCING

by Janet Becht & Ann Greenthal

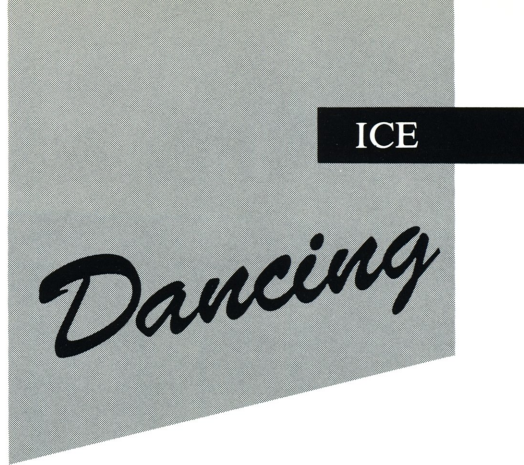
The Southern California Adult Dance Championships, a showcase for the best skaters in Southern California (and perhaps the country), began in 1976 as the brainchild of Ann Greenthal. In its first year, it attracted 46 different couples in 7 events, ranging from Preliminary to Gold, and required three arenas to accommodate the various events. Adult events were designated for anyone thirty years of age or older. "Generation Gap" events at the Bronze, Silver, and Gold levels were designed so that any adult skater could compete with a partner under thirty as well. Generation Gap events soon became known as "fun" events and notable ice dancers who have participated to everyone's delight include Anthony Bardin, Judy Blumberg, Colette Huber, Ron Kravette, and Michael Seibert.

For a time, this competition settled at the Santa Monica FSC and was called the Santa Monica Adult Dance Competition. When the Santa Monica club lost its ice in 1982, the competition was moved to the Paramount Iceland Arena under the sponsorship of the Arctic Blades FSC and has since returned to its original name.

With the inclusion of new events such as the Original Set Pattern Dance in 1981 and the Variation Dance in 1982, the number of competitors grew to 68 couples. These new events, along with the Generation Gap events, became the highlights of the competition. In the first year that these two new events were held five couples entered each event. The Variation Dance has been coordinated each year with the official USFSA Variation Dance selection for qualifying competitions and this tradition will continue in 1989.

In 1985 in honor of the tenth anniversary of the Southern California Open Adult Dance Championships, an "Anniversary Waltz" event was added to the competition. A team of four couples simultaneously skate the Three Lobe Waltz in what has been referred to as a "rose pattern." In its initial year, the Anniversary Waltz event had ninety-eight couples compete.

Many National and World Judges, such as Thomas Easton and Eleanor Schultz, com-



pete in these championships. In the 1988 competition Eleanor Curtis skated for the first time with her son, Michael, in the Adult event. This was the first time Michael qualified for this category; previously he competed in the Generation Gap event.

The emphasis in this competition is on participation and doing your best and having fun. The mood of the competition is one of joyous celebration. In this respect, breakfast, lunch, and dinner are provided for all—competitors, officials, and spectators—making the competition a very social occasion where the *adults* are the stars.

In 1989 the championships are planned to be held on Sunday, May 14, in order that delegates coming to the Governing Council Meeting might be able to participate. Everyone involved with the championships feels this is a good idea and we hope the delegates will come skate, judge, watch, and have fun with us!

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INGRID BUTT



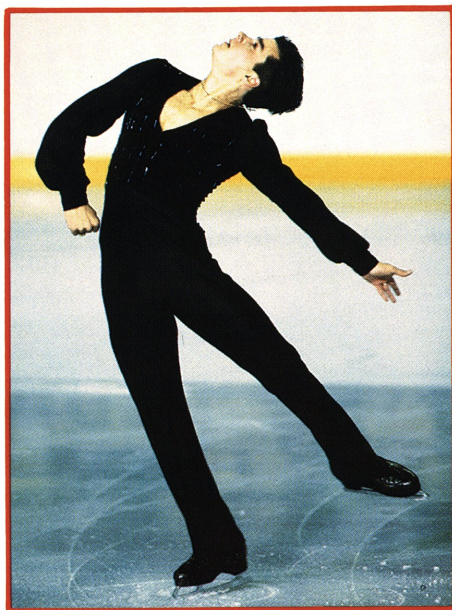
PAUL HARVATH



October is a wonderful time of the year to visit Maine. First, there is the terrific New England fall foliage, the superb seafood, and fresh apple cider from nearby orchards. Fall in Maine is pumpkins and hayrides and Halloween. All these things and more awaited participants at Skate America 1988. In addition to the figure skating competition, there was ample opportunity to take a ferry boat ride to the islands, see the Winslow Homer exhibit at the Portland Museum of Art, or drive to the scenic Portland Head lighthouse commissioned in 1790 by George Washington. As in 1986 the event was capably chaired by Priscilla Millier.

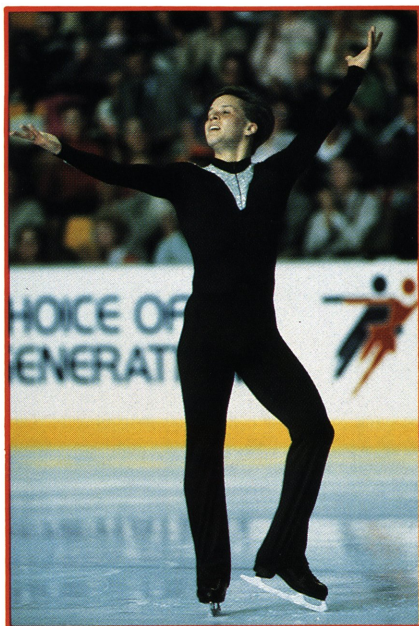
The draw was held at the Woodlands Country Club located in Falmouth, followed by a traditional "Down Maine" lobster and clambake. On Saturday morning a special "Learn to Skate" clinic was offered at the Portland Ice Arena sponsored by Pepsi and WGNE-TV of Portland. The ice time was donated by the city to develop local interest in the sport. Natalie and Wayne Seybold, Paul Wylie, and ice dancers Amy Webster and John Millier of Maine took part in the clinic.

The Opening Ceremonies on Thursday began with a Parade of Nations with young skaters outfitted in ethnic costumes carrying the flag of each nation represented. This year's event marked the debut of participants from Mexico and Thailand,



INGRID BUTT

CHRISTOPHER BOWMAN
Men's Gold
USA



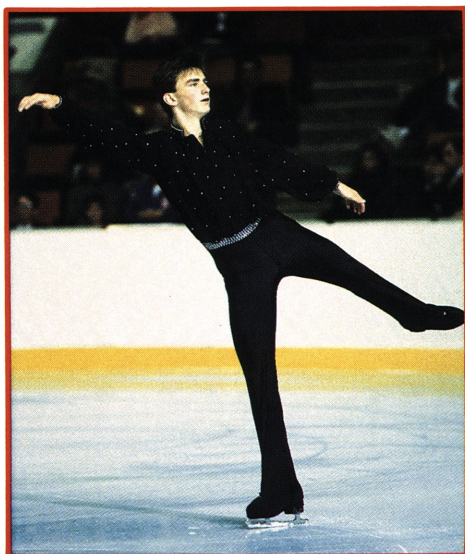
PAUL HARVATH

DANIEL DORAN
Men's Silver
USA

two recent additions to the ISU's roster of member nations. Maine's Ice Images, SC of Maine, accompanied coach Debra Copping's solo. The Warwick Rhode Island Superettes precision team displayed their skills, followed by Amy Webster and John Millier. The ceremonies concluded with an outstanding and technically difficult exhibition by the Olympic and World bronze medalist, Viktor Petrenko of the USSR.

Men

Fourteen competitors, including six national champions representing eleven countries began the RFO paragraph bracket and the LBO paragraph loop figures. Daniel Doran won the first figure, followed by Christopher Bowman and Todd Eldredge. Vladimir Petrenko of the USSR and Michael Slipchuk of Canada rounded out the top five. In the second figure Bowman faltered and dropped to fourth overall. Here Eldredge and Petrenko laid down solid figures. Although they tied in total placements, Doran prevailed over Eldredge and won the figure event. Petrenko took third.



PAUL HARVATH

TODD ELDREDGE
Men's Bronze
USA



PAUL HARVATH

CLAUDIA LEISTNER
Ladies' Gold
Federal Republic of Germany

Skating to a new original program, Doran touched down on a double Axel. A solo triple Lutz was completed well, but he fell on a second triple Lutz combination. His two step sequences were the best elements of the program. Eldredge presented a fine program. His triple Axel/double toe was the most difficult combination of the night. A triple toe and good height on the double Axel combined with high caliber spin variations earned him high scores.

Bowman, skating next, utilized his unique style of showmanship. His flying sit spin had exceptional height and the jumps including a straight line sequence into a triple flip and triple Lutz/double toe were right on the mark. The program received all first places from the judges.

Vladimir Petrenko, younger brother of Viktor, fell out of the landing on a triple toe Walley but did a triple Lutz/double toe combination. His flying sit spin was shaky, but he demonstrated nicely extended positions and variations and finished fourth overall.

With the conclusion of the original program the U.S. men held the top three spots with Eldredge first, Bowman second, and Doran third. Slipchuk remained in fifth.

Saturday evening the Nor'easter that had been raging throughout the day producing



PAUL HARVATH

MIDORI ITO
Ladies' Silver
Japan



PAUL HARVATH

KRISTI YAMAGUCHI
Ladies' Bronze
USA

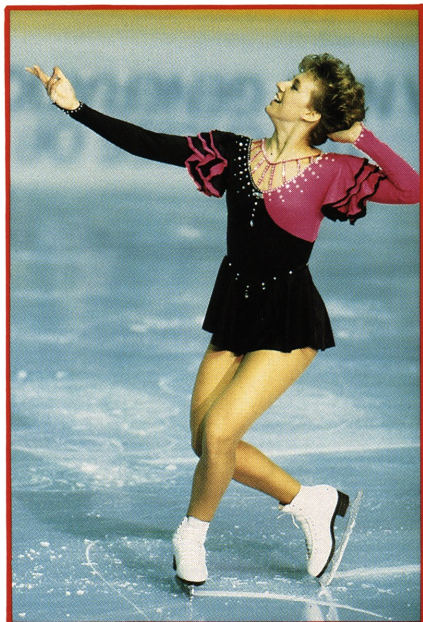
drenching rains and damaging coastal tides subsided and the tempest moved inside the Civic Center.

In the final group, Bowman unveiled a new free program to music from *Swan Lake*, *Rigoletto*, the film *Raging Bull*, and the "Anvil Chorus." He proceeded to nail a triple flip then went into a triple Axel, which was clean except that his free leg swung wide on the landing. This jump has eluded him for three years and he considered it a personal accomplishment to finally include it in his repertoire. The program then proceeded to a triple Lutz/double toe combination, a high flying sit spin, and sustained Ina Bauer. The triple loop landing was just held and he later admitted he had lost his concentration because he had focused too much on the Axel and "at that point my mind was out in the parking lot." Three more triples and a butterfly into a scratch spin had the crowd cheering.

Popped jumps and falls marred Petrenko's presentation. He landed a double Axel but fell on a triple flip. He did succeed with a triple Salchow but fell on the triple Lutz. He popped a triple toe Walley, two-footed a triple loop and a double Axel, and fell on another Walley. (During the program his brother Viktor could be seen watching. At each mistake he would turn away as if it were too painful to observe.) Hopes of placing in the top three were dashed.

Eldredge unexpectedly found himself in the lead entering the long. His new long program to music from *Illya, Darling* opened with a triple flip. He fell out of the landing and doubled a planned triple Axel. He did complete a Walley/triple Lutz and included a series of lunges backward and forward into a triple loop with single loop combination. A triple toe/double toe combination was successful.

Doran retaining his long program from last season began with a spread eagle into



INGRID BUTT

HOLLY COOK
Ladies' Fourth
USA



INGRID BUTT

JERI CAMPBELL
Ladies' Fifth
USA



INGRID BUTT

**NATALIA MISHKUTENOK &
ARTHUR DMITRIEV**
Pair's Gold
USSR

a triple Lutz and proceeded into a triple flip. Later triples included a loop, a spiral into a Salchow, spread eagle into loop/double loop combination, and a triple Salchow/double toe combination. Although technically competent, Doran has not always projected to his audience. Here he appeared relaxed, enjoying himself and interacting with the spectators.

After the marks had been tabulated Bowman was the victor with Doran second and Eldredge third for a U.S. sweep in the event.

Ladies

Thirteen entries from ten countries began the figures competition skating the RFO counter and the LBO paragraph loop. Charuda Upatham, the ladies' champion of Thailand, drew to start the first figure. Upatham, a seventeen year old, resides in Massachusetts, is coached by Suna Murray, and trains at the SC of Boston. Joanne Conway, the British champion, received the highest marks on the counter and Claudia Leistner of the Federal Republic of Germany, won the loop. Final results placed Conway first, followed by Leistner, with Holly Cook and Jeri Campbell of the U.S. in third and fourth. Midori Ito, of Japan and Kristi Yamaguchi, of the U.S. finished in eighth and seventh respectively. With the reduction in value of figures, their deficit in this portion was not as insurmountable as in the past.

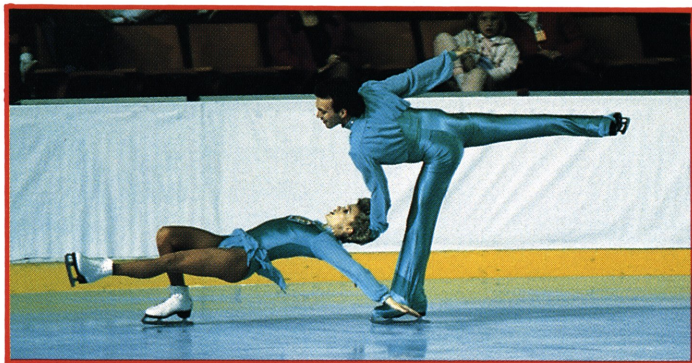
Skating first in the original program was Diana Marcos representing Mexico. The ladies' original programs were overall of tentative quality and did not come close to fulfilling the apparent ISU intentions in revamping this event.

It drew to skate first in the second group and had the audience buzzing with anticipation. Her double Axel with Lutz



INGRID BUTT

**MARINA ELTSOVA &
SERGEI ZAITZEV**
Pair's Silver
USSR



INGRID BUTT

NATALIE SEYBOLD & WAYNE SEYBOLD
Pair's Bronze
USA

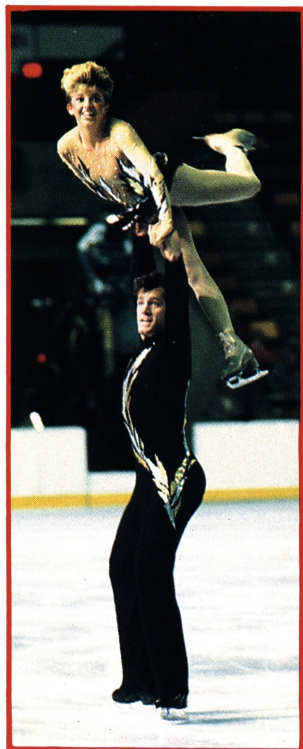
entry and hands on her waist was high and solid but the combination double loop/triple loop which had gone well in practice was flawed when she popped the triple into a double. The mistake appeared to unnerve her, and the rest of the performance lacked spark.

At the press conference she disclosed she had suffered a stretched ligament in her left knee. She had only resumed skating five days before coming to Skate America.

Last in this group was Yamaguchi, who like Ito, is known for her technical pyrotechnics. However, she too faltered on the combination jump, landing a triple Lutz but following it with a single toe. The rest of the program was skated with good speed, centered spins, interesting step sequence footwork, and solid solo jumps.

Cook took to the ice to "Another Cha Cha," and skated a credible program, marred only by touching her hands down after the triple toe on her combination jump. Especially effective and rarely seen in the ladies' division were barrel rolls in her step sequence portion.

Leistner presented a jazzy Coney Island number. Her combination jump was a triple toe Walley/double toe solidly executed with a mature, experienced interpretation of her program. Campbell, last to skate, managed only a double toe/double toe combination and appeared to be going through the motions until her final ele-



PAUL HARVATH

KELLIE CREEL & BOB PELLATON
Pair's Fifth
USA



INGRID BUTT

**SUSAN WYNNE &
JOSEPH DRUAR**
Dance Gold
USA



INGRID BUTT

**SVETLANA LYAPINA &
GEORGI SUR**
Dance Silver
USSR

ment, the combination spin, which she entered with a series of traveling camels and ended with her "headless" spin.

Leistner received all seven first placements with Ito second, followed by Yamaguchi and Cook.

The ladies' free skating was Friday evening. The final group contained all three U.S. entries along with Ito and Leistner. Yamaguchi, up first, got the audience's attention with her opening triple Lutz. Altogether she landed six triples. Skating energetically to *Gaite Parisienne*, she concluded the program with a "headless" scratch spin to wild approval from the partisan audience.

Cook opened with a huge double Axel and moved into a triple toe/double toe combination. A flip jump was popped late in the program but strong spins and footwork compensated for the error.

When Ito took to the ice, many felt they would witness history as she had been successfully practicing a triple Axel. She too opened with a triple Lutz and then with great height entered the triple Axel, completing the rotations but falling out of the landing. This miscue temporarily distracted her. She singled a planned triple Salchow but was able to get back on track. Throughout the program, there was evidence of a concerted effort to improve her artistic presentation.

Campbell, appeared subdued and did not project well. Her triple Lutz and Salchow were completed cleanly but she two-footed a triple toe in combination with a double Axel and later fell on a solo triple toe. Here too, she saved her best element for last ending with a superb combination spin.

Leistner skating to "MacArthur Park," was conservative but projected to the audience better than in previous years. Altogether it was a polished and elegant performance. She attempted six triples cleanly landing a toe Walley in combination with a double toe, a Salchow, and later in the program a solo toe Walley. She did two-foot a triple loop and pop an Axel towards the end. The performance was



RENEE ROCA & JAMES YORKE
Dance Bronze
USA

enough to give her third place in the free skating and the overall title.

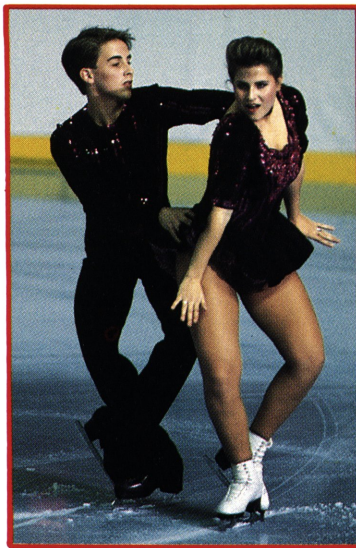
Ito, with seven first places in the long took second, and Yamaguchi solidly in second in the free finished third. Cook and Campbell followed in fourth and fifth.

Leistner later revealed that this was her first international victory in almost five years. Ito to the amusement of the press said she felt her program was only 60% ready. She is concentrating on figures and presentation and feels figures are still important despite their imminent demise. Yamaguchi reaffirmed her intentions of competing in both singles and pairs this season. Although Ito and Yamaguchi generated excitement, it was refreshing to witness a seasoned competitor regain her place in international rankings.

Pairs

With nine couples representing five countries in the pair's competition, it was a strong showing for this discipline. (The U.S. entry of Shelly Propson and Scott Wendland were forced to withdraw.)

The Canadian National Champions, Christine Hough and Doug Ladret, drew to skate the original program first and to the music, "Fever," they demonstrated the required elements with nice expression. The U.S. entry of Kellie Creel and Bob Pellaton utilized a star with twist exit for



JENNIFER BENZ & JEFFREY BENZ
Dance Ninth
USA

their lift and jumped strong double Lutzes. Their spins gave them problems with a lack of unison.

The Soviet entry of Natalia Mishukutenok and Arthur Dmitriev, coached by Tamara Moskvina, are presently ranked fourth nationally and also placed fourth at the 1988 European Championships. This couple demonstrated the power and speed for which Soviet pairs are noted. Each element was complete and finished with good extension by both skaters.

The second Soviet couple, also from Leningrad, opened with a back outside death spiral and solid double Axel jumps. However, the exit on the star lift was shaky and the flying camel solo spins were not in unison.

The U.S. pair of Natalie and Wayne Seybold were poised to benefit from a good draw position. Their overhead star lift had many hand changes, and they incorporated a double lateral for their twist lift. Double flip jumps were solid and their trademark back outside death spiral was also well presented.

Mishkutenok and Dmitriev won the original program, second were their compatriots Marina Eltsova and Sergei Zaitzev (no relation to Alexander Zaitsev), followed by the Seybolds in third and Hough and Ladret fourth.

Skating first in the last group of the long program, Hough and Ladret choose a balletic program which flowed effortlessly and was enhanced by creative moves such as a star lift with cartwheel exit and intricate step sequences. The experience of this pair was evident in their presentation.

Creel and Pellaton, coached by John Nicks, have skated together less than two years. Their choreography is by former World and Olympic team member Wendy Burge, Creel's cousin. A press to one hand with a twist exit, a star into a tabletop, and a helicopter lift were nicely presented. The double twist lift along with throw triple Salchow and throw double Axel plus an inverted forward inside death spiral were successfully completed with the only apparent weakness in the lower degree of difficulty in solo jumps.

The Seybolds used a Russian medley including a slow piece given to their coach, Ron Ludington, by Mrs. Moskva. They both faltered on double Axel jumps. On the throw triple Salchow she touched her free foot down. They again included the back outside death spiral with delayed entry and strong lifts including a step thru and one-arm star lift.

Mishkutenok and Dmitriev presented an interesting and innovative program demonstrating their unison and flexibility. A back inside death spiral with her in a split position and the inverted pair spin were completed with good speed. She did two-foot the landing of the throw triple toe loop and overrotated the double Axel jump. They were well received and pleased with their debut in the U.S.

Eltsova and Zaitzev were the last pair to skate. They opened with double Axel jumps made more difficult by the distance from one another. On the throw triple loop she fell hard on the landing but did not allow the mistake to disrupt the program.

The lifts did not seem as secure as those demonstrated by other couples in this last group but overall the impression was quite elegant.

After the scores had been tabulated, Mishkutenok and Dmitriev retained their lead and won the title with six first places, followed by Eltsova and Zaitzev and by the slimmest of margins the Seybolds took third over Hough and Ladret with Creel and Pellaton fifth.

During the press conference Mrs. Moskva stated that her pair has been skating together for three years and have been coached by her for the last year and a half. They are an intelligent, well educated couple and as a singles skater Dmitriev had five different triples mastered. She emphasized, "to win, every small detail counts."

Dance

Ordinarily dance competitions are the least controversial. However, in Portland questions were raised over musical selections for this year's OSP rhythm, the Charleston. Additionally, the new ISU ruling using the artistic impression mark to break a tie clearly affected final standings. Nine entries from six nations began the compulsory dances with the Westminster Waltz. Svetlana Lyapina and Georgi Sur of the USSR and Susan Wynne and Joseph Druar of the U.S. set the standard for the other competitors. After the second dance, the Yankee Polka, the Soviets led, followed by Wynne and Druar in second, with third place going to Renee Roca and James Yorke.

This year the Charleston OSP apparently favors dancers from Canada, Great Britain, and the U.S. The expressive and energetic presentations demonstrated by these couples contrasted sharply with the European couples.

The Soviets skated first in the second group and although the music was listed as a Charleston it was clearly ragtime by Scott Joplin used by Wilson and McCall in their free dance last season. Lyapina fell

on an opening move not within the sequence of the dance. Rules clearly specify that usage of incorrect music for the rhythm must be penalized by the judges. Only one judge, the Canadian, marked them lower but still had them first.

Later when questioned about their choice of music, the couple along with their coach Marasova Alexseeva vehemently defended it, going so far as to suggest that the American audience was not comprised of professionals and their opinions as to the validity of the music would not be taken into consideration.

Wynne and Druar's selection was located by his mother in a music archive and the dance particularly suits their effervescent personalities. Their presentation was polished with a high level of difficulty displaying unison and tight footwork. They received first places from five judges and took first overall.

Roca and Yorke, also had an exuberant and appealing dance with unique elements and solidified their third-place standing. The British champions, Sharon Jones and Paul Askham, also did a nice job with the rhythm and remained in fourth place.

Roca and Yorke described their free dance as a Middle Eastern program with contemporary nuances. The opening music, "Sandstorm," immediately created a sensuous mood. The movements were elegantly presented and many were unusual such as an intricate arm lift with Roca slithering around Yorke. They received almost unanimous third places.

Wynne and Druar have chosen a Latin theme for this year's free dance but used only the first half at this competition along with portions of last season's program. As of October, the couple have skated together for eight years and their maturity is evident. They respond well to each other and to the crowd, which couples with less experience tend to overlook.

Lyapina and Sur used "Spartacus" with choreography by Tatiana Tarasova, coach of Olympic and World champions, Bestemianova and Bukin. The program appeared too balletic and this was reflected in lower artistic impression marks.

With the artistic impression score now used in the free dance to break a tie, this was to be to Wynne and Druar's advantage. The Soviets and Americans had two first places outright but the remaining three judges had them tied. The victory went to the U.S. couple on the basis of higher artistic scores. The victory was especially sweet because at last year's NHK the same Soviets had edged out Wynne and Druar. Roca and Yorke finished third with Jones and Askham fourth.

Skate America came to a close with the Sunday afternoon Gala Exhibition featuring a great variety of presentations from Beethoven to "The Twist," much to the delight of the audience and a small finch who had observed the proceedings all week from the ice. All too soon, the competition ended, and we now must wait for 1989, when Skate America moves to the Midwest and opens in Indianapolis.

1988 SKATE AMERICA PORTLAND, MAINE OCTOBER 17-23, 1988

MEN

JUDGES: 1-Georgi Yashvili, USSR; 2-Donald McKnight, Australia; 3-Igor Prokop, Czechoslovakia; 4-Christiane Moerth, Austria; 5-Jacqueline Itschner, Switzerland; 6-Coco Gram Shean, USA; 7-John Greenwood, Canada. SUBSTITUTE JUDGE: Kazuo Ohashi, Japan. REFEREE: Jürg Wilhelm, Switzerland. ASSISTANT REFEREE: Franklin S. Nelson, M.D., USA.

	CF	OP	FS		PLACES
1.	4	1	1	Christopher Bowman, USA	3.2
2.	1	4	2	Daniel Doran, USA	4.8
3.	2	2	3	Todd Eldredge, USA	5.0
4.	10	6	4	Lars Dresler, Denmark	11.6
5.	3	3	9	Vladimir Petrenko, USSR	12.0
6.	5	5	8	Michael Slipchuk, Canada	13.0
7.	7	9	6	Cameron Medhurst, Australia	14.2

8.	6	12	5	Oliver Hoener, Switzerland	14.6
9.	9	7	7	Makoto Kano, Japan	14.8
10.	8	13	10	Ralph Burghart, Austria	21.0
11.	13	8	11	David Liu, Chinese Taipei	21.0
12.	11	10	12	Martin Marceau, Canada	22.4
13.	12	11	13	Charles Wildridge, Great Britain	24.4
14.	14	14	14	Ricardo Olavarrieta, Mexico	28.0

LADIES

JUDGES: 1—Irina Absaliamova, USSR; 2—Noriko Shirota, Japan; 3—Wendy Utley, Great Britain; 4—Ute Boehm, Federal Republic of Germany; 5—Anne Doherty, Canada; 6—Anne Hardy-Thomas, France; 7—**John LeFevre, USA**. SUBSTITUTE JUDGE: Jacqueline Itschner, Switzerland. REFEREE: **Benjamin T. Wright, USA**. ASSISTANT REFEREE: Kazuo Ohashi, Japan.

	CF	OP	FS		PLACES
1.	2	1	3	Claudia Leistner, Federal Republic of Germany	4.4
2.	8	2	1	Midori Ito, Japan	5.4
3.	7	3	2	Kristi Yamaguchi, USA	6.6
4.	3	4	4	Holly Cook, USA	7.6
5.	4	6	5	Jeri Campbell, USA	10.2
6.	9	5	6	Karen Preston, Canada	12.6
7.	1	8	10	Joanne Conway, Great Britain	15.2
8.	6	10	7	Claude Peri, France	15.4
9.	5	9	9	Natalya Skrabnevskaya, USSR	16.4
10.	11	7	8	Stefanie Schmid, Switzerland	16.6
11.	10	11	11	Josee Chouinard, Canada	21.6
12.	12	12	12	Charuda Upatham, Thailand	24.0
13.	13	13	13	Diana Marcos, Mexico	26.0

PAIRS

JUDGES: 1—Ute Boehm, Federal Republic of Germany; 2—Donald McKnight, Australia; 3—Anne Doherty, Canada; 4—**Mary Louise Wright, USA**; 5—Wendy Utley, Great Britain; 6—Georgi Yashvili, USSR; 7—Anne Hardy-Thomas, France. SUBSTITUTE JUDGE: **E. Newbold Black IV, USA**. REFEREE: Donald Gilchrist, Canada. ASSISTANT REFEREE: **E. Newbold Black IV, USA**.

	OP	FS		PLACES
1.	1	1	Natalia Mishkutenok & Arthur Dmitriev, USSR	1.5
2.	2	2	Marina Eitsova & Sergei Zaitzev, USSR	3.0
3.	3	3	Natalia Seybold & Wayne Seybold, USA	4.5
4.	4	4	Christine Hough & Doug Ladret, Canada	6.0
5.	6	5	Kellie Creel & Bob Pellaton, USA	8.0
6.	5	6	Michelle Menzies & Kevin Wheeler, Canada	8.5
7.	8	7	Stacey Ball & Kris Wirtz, Canada	11.0
8.	9	8	Anuschka Glaser & Stefan Pfrengle, Federal Republic of Germany	12.5
9.	7	9	Cheryl Peake & Andrew Naylor, Great Britain	12.5

Shelly Propson & Scott Wendland, USA, withdrew

DANCE

JUDGES: 1—Brenda Long-Simpson, Great Britain; 2—**Sherie Grimson, USA**; 3—Irina Absaliamova, USSR; 4—Marie-Danielle Wilhelm, Switzerland; 5—Igor Prokop, Czechoslovakia; 6—John Greenwood, Canada; 7—Mireille Dubois, France. SUBSTITUTE JUDGE: Noriko Shirota, Japan. REFEREE: Joyce Hisey, Canada. ASSISTANT REFEREE: **Ronald T. Pfennig, USA**.

	CD	OSP	FD		PLACES
1.	2	1	1	Susan Wynne & Joseph Druar, USA	2.4
2.	1	2	2	Svetlana Lyapina & Georgi Sur, USSR	3.6
3.	3	3	3	Renee Roca & James Yorke, USA	6.0
4.	4	4	4	Sharon Jones & Paul Askham, Great Britain	8.0
5.	5	5	5	Jo-Anne Borlase & Martin Smith, Canada	10.0
6.	7	6	6	Michelle McDonald & Mark Mitchell, Canada	12.4
7.	6	7	7	Dominique Yvon & Frederic Palluel, France	13.6
8.	8	8	8	Andrea Juklova & Martin Simecek, Czechoslovakia	16.0
9.	9	9	9	Jennifer Benz & Jeffrey Benz, USA	18.0

NOTES ON PRECISION MUSIC

by J.C. Booth

To present your precision team successfully you must use all of the tools at your disposal. Music is one of the key elements.

Choosing the music should come first, and then the program should be choreographed. Some teams try to make their music conform to an already established routine and add short snatches of music to fit each new maneuver. This results in scrambled music with bad cuts, and a program which as a whole lacks flow and coherence.

Start a precision routine with music that will keep the judges' and audience's attention until the end. The music must have a vitality that affects the spectators, judges, and skaters. It must also be suitable for the team. The skaters must use their whole bodies, costumes, and flowing maneuvers to interpret the music. The overall purpose is this: to recreate, for the audience and the judges, what the music has created audibly. In other words, *let them see what they hear*. Skating to the music leaves the viewer with the feeling that the team knew what it wanted to do and then went out and did it.

PSR 9.01 states that "there shall be at least three distinct music rhythms." Examples would be march, waltz, tango, etc. There should be a strong underlying rhythm or beat that all team members can hear or sense in order to get the feeling of unison that is necessary for success. Often a judge will say, "They didn't skate to their music." In many instances the music itself was the culprit.

The *Rulebook* also states that "no two rhythms may have the same tempo." It is at this point that a number of teams falter. After the music tape is made, a metronome should be set to the first rhythm. Then the other rhythms should be checked to be sure that they are *not* the same basic beat. Many precision judges have a strong music or dance background, and their internalized metronome will pick up an error of this kind very easily.

Precision

REVIEW

Music with a strong continuous drumbeat without sufficient counter themes is very difficult to interpret. It becomes monotonous very quickly. Sometimes the team just ignores it and becomes out-of-sync with its music.

The music should have some form of progression such as A B A or A A B A. This gives a feeling of a beginning and an ending. However, this doesn't mean that the beginning and ending A's need to be the same music.

The program should fit every phase of the music, and every note should be choreographed if possible. The music should build to a climax and the choreography should follow suit. If a theme is used it will be easier to tie the music together as well as the maneuvers.

There are many experts willing to help you find music, but you have to ask. Try the local music store, the library, other precision groups such as ballroom dancing, precision, or the Drum Corps International Competition videotapes. After choosing music, many top teams send their tapes to someone knowledgeable in the music field for their comments.

Once the music has been chosen, there are several things to watch out for when making the tape. The cuts should make sense musically. There should not be abrupt key changes. If there is a cut in a four-beat rhythm, none of the four beats should ever be cut off.

Since very few rinks have good audio sound at all locations in the rink, there should not be extreme highs and lows in the final tape. Also, there should not be

Continued on page 62

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NEW APPOINTMENTS AT NATIONAL HEADQUARTERS

Three new appointments have been made among staff members at the USFSA National Headquarters in Colorado Springs.

Valerie Powell, former Administrator for Special Projects, has been appointed Director of Competitions. She will serve as liaison to the local organizing committees for all major competitions, including the National Championships, Skate America, plus the World and World Junior Championships when they are held in the States. She also will retain her current duties as USOC Coordinator.

Leslie Gamez has been appointed Director of Club Operations and will serve as liaison between the USFSA and its member clubs. Responsibilities will include development of volunteer, membership, and program service to member clubs and committee chairmen.

Lillian Spenser, former Administrative Secretary, will assume the duties of International Committee Coordinator and Administrator for the USFSA's Sports Medicine and Science Program.

Chris Carner, will move from head receptionist, to assume the position of Computer Operator Trainee, joining the Computer Services Department as a systems operator in data entry.

FIESTA ON ICE

The USFSA was honored by the Junior Guild of the St. Anne's Maternity Home in Los Angeles recently at a dinner and silent auction held on the twenty-second floor of the Los Angeles Club. Special guests at the event included Olympian Christopher Bowman, U.S. Junior Champion Christopher Mitchell, Jeri Campbell, Richard Dwyer, Dr. and Mrs. Hugh C. Graham, Jr., and son Aaron Kirkland, along with film stars Claude Atkins and Anthony Caruso. The Los Angeles FSC was represented by vice presi-

People

AND PLACES



Brian Martin had the successful bid on the treasured sweatshirt.

dent Eleanor Schultz. A special commendation from the Mayor of Los Angeles was presented to the LAFSC, and commemorative plaques were presented to the LAFSC and to the USFSA. The dinner was followed by a silent auction. The favorite item of the auction was a "Hey, Hey L.A." sweatshirt signed by Brian Boitano, Debi Thomas, Caryn Kadavy, Katarina Witt, Jill Trenary, Christopher Bowman, Christopher Mitchell, Jeri Campbell, and Richard Dwyer. The winning bidder was Brian Martin.



Connie and Dr. Graham, son Aaron, Claude Atkins, and Tonia and Anthony Caruso were special guests.

Ice

ABROAD

NOVARAT TROPHY BUDAPEST, HUNGARY OCTOBER 6-9, 1988

MEN

1. Mark Mitchell, USA	2.0
2. Peter Johansson, Sweden	3.5
3. Stephane Yvars, Canada	3.5
4. Vjachslov Zagorodniuk, USSR	7.5
5. Alessandro Riccitelli, Italy	7.5
6. Przemyslaw Noworyta, Poland	9.0
7. Mark Bachofen, Switzerland	10.5
8. Peter Kovacs, Hungary	11.0
9. Armin Withalm, Austria	14.0

PLACES

LADIES

1. Nancy Kerrigan, USA	1.5
2. Tamara Teglassy, Hungary	3.0
3. K. Schroeter, Switzerland	5.5
4. Leslie White, Canada	5.5
5. Susanne Reindl, Austria	7.0
6. M. Gawlowska, Poland	9.0
7. Sabrina Moreth, Australia	11.0
8. Assia Alexieva, Bulgaria	12.5
9. Mateja Aubrecht, Yugoslavia	12.5
10. A. Winkelmann, Netherlands	15.0
11. Andrea Granitz, Hungary	17.0
12. Marta Andrella, Italy	17.5

PLACES

DANCE

1. Larissa Fedorinova & Evgeni Platov, USSR	3.0
2. Jodie Balogh & Jerod Swallow, USA	3.6
3. Christina Kerekes & Saba Szentpetri, Hungary	5.4
4. Anna Croci & Luca Mantovani, Italy	8.0
5. Pascale Vrot & David Quinsac, France	10.0
6. Kim Weeks & Jeff Fish, Canada	12.0
7. Desiree Schlegel & Patrik Brecht, Switzerland	14.0
8. A. Langyel & G. Koleczanszky, Hungary	16.4
9. Barbara Levinzka & Andrei Szaszor, Poland	17.6

PLACES

KARL SCHÄFER MEMORIAL VIENNA, AUSTRIA OCTOBER 10-13, 1988

MEN

1. Vjachslov Zagorodniuk, USSR	1.5
2. Rico Krahnert, German Democratic Republic	3.0
3. Mark Mitchell, USA	4.5
4. Peter Johansson, Sweden	7.0
5. Ralph Burghart, Austria	7.0
6. Stephane Yvars, Canada	9.5
7. Przemyslaw Noworyta, Poland	9.5
8. Alessandro Riccitelli, Italy	12.5
9. Peter Kovacs, Hungary	14.0
10. Jan Erik Digernes, Norway	14.5
11. Armin Withalm, Austria	17.0
12. Geoffry Blee, Australia	17.0

PLACES

LADIES

1. Nancy Kerrigan, USA	1.5
2. Eveline Grossman, German Democratic Republic	3.0

PLACES

DONAUPOKAL BUDAPEST · WIEN



3. Tamara Teglassy, Hungary	4.5
4. Mirella Gawlowska, Poland	6.5
5. Zeljka Cizmesija, Yugoslavia	8.0
6. Leslie White, Canada	8.5
7. Susanne Reindl, Austria	11.0
8. Sabrina Moreth, Australia	12.0
9. Petra Vonmoos, Switzerland	13.0
10. Marta Andrella, Italy	15.5
11. Anita Thorenfeldt, Norway	17.0
12. Jeltje Schulten, Netherlands	17.5
13. Assia Alexieva, Bulgaria	18.5

DANCE

1. Larissa Fedorinova & Evgeni Platov, USSR	2.0
2. Christina Kerekes & Saba Szentpetri, Hungary	4.0
3. Jodie Balogh & Jerod Swallow, USA	6.0
4. Sophie Moniotte & Pascal Lavanchy, France	8.0
5. Anna Croci & Luca Mantovani, Italy	10.0
6. Kim Weeks & Jeff Fish, Canada	12.0
7. Desiree Schlegel & Patrik Brecht, Switzerland	14.0
8. Birgit Pfeninger & Michael Steiner, Austria	16.0
9. Ursula Holik & Herbert Holik, Austria	18.0
10. Barbara Levinzka & Andrei Szaszor, Poland	20.0

PLACES

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SENIOR MEN

JUDGES: 1-Maira Abasova, USSR; 2-Leena Kurri, Finland; 3-Gale Tanger, USA; 4-Heinz Ulrich Walther, German Democratic Republic; 5-Sumiko Kobayashi, Japan; 6-Audrey Williams, Canada; 7-Georg Krummenacher, Switzerland. SUBSTITUTE JUDGE: Audrey Moore, Canada. REFEREE: Dennis McFarlane, Canada. ASSISTANT REFEREE: Donald Gilchrist, Canada.

	CF	OP	FS		PLACES
1.	2	2	1	Kurt Browning, Canada	3.0
2.	1	1	2	Victor Petrenko, USSR	3.0
3.	4	3	3	Angelo D'Agostino, USA	6.4
4.	8	4	4	Matthew Hall, Canada	9.6
5.	7	8	5	Cameron Medhurst, Australia	12.6
6.	5	5	8	Daniel Weiss, Federal Republic of Germany	13.0
7.	3	9	7	James Cygan, USA	13.6
8.	9	7	6	Ronny Winkler, German Democratic Republic	13.8
9.	6	6	9	Oula Jaaskelainen, Finland	15.0
10.	11	10	10	Frederic Lipka, France	20.4
11.	10	11	12	Mark Bachofen, Switzerland	22.6
12.	12	12	11	Tatsuya Fujii, Japan	23.0

LADIES

JUDGES: 1-Patricia S. French, USA; 2-Leena Kurri, Finland; 3-Ingrid Reetz, Federal Republic of Germany; 4-Joan Noble, Great Britain; 5-Zsafia Wagner, Hungary; 6-Anatoly Bogatirev, USSR; 7-Jane Garden, Canada. SUBSTITUTE JUDGE: Heinz Ulrich Walther, German Democratic Republic. REFEREE: Sally A. Stapleford, Great Britain. ASSISTANT REFEREE: Ronald T. Pfenning, USA.

	CF	OP	FS		PLACES
1.	2	2	1	Natalia Lebedeva, USSR	3.0
2.	1	1	2	Jill Trenary, USA	3.0
3.	5	3	3	Patricia Neske, Federal Republic of Germany	6.8
4.	3	3	5	Charlene Wong, Canada	8.0
5.	6	6	4	Tracey Damigella, USA	10.0
6.	8	5	6	Yukiko Kashiwara, Japan	12.2
7.	10	8	7	Marieclaud Tremblay, Canada	15.8
8.	9	7	8	Tamara Teglassy, Hungary	15.8
9.	4	9	9	Gina Fulton, Great Britain	16.0
10.	7	10	10	Elna Hanninen, Finland	18.8

PAIRS

JUDGES: 1-Patricia S. French, USA; 2-Zsafia Wagner, Hungary; 3-Anatoly Bogatirev, USSR; 4-Joan Noble, Great Britain; 5-Ingrid Reetz, Federal Republic of Germany; 6-Georg Krummenacher, Switzerland; 7-Audrey Williams, Canada. SUBSTITUTE JUDGE: Gale Tanger, USA. REFEREE: Benjamin T. Wright, USA. ASSISTANT REFEREE: Audrey Moore, Canada.

	OP	FS		PLACES
1.	1	1	Isabelle Brasseur & Lloyd Eisler, Canada	1.5
2.	3	2	Peggy Schwarz & Alexander Koenig, German Democratic Republic	3.5
3.	2	3	Ekaterina Murugova & Artem Torgashov, USSR	4.0
4.	4	4	Natalie Seybold & Wayne Seybold, USA	6.0
5.	5	5	Melanie Gaylor & Lee Barkell, Canada	7.5
6.	6	6	Lisa Cushley & Neil Cushley, Great Britain	9.0
7.	7	7	Sonja Adalbert & Daniele Caprano, Federal Republic of Germany	10.5

DANCE

JUDGES: 1-Mary Parry, Great Britain; 2-Sumiko Kobayashi, Japan; 3-Jean Robinson, USA; 4-Rossella Ceccattini, Italy; 5-Jane Garden, Canada; 6-Marlene Young, Canada; 7-Maira Abasova, USSR. SUBSTITUTE JUDGE: Ronald T. Pfenning, USA. REFEREE: Joyce Hisey, Canada. ASSISTANT REFEREE: Erika Schiechl, Federal Republic of Germany.

	CF	OSP	FD		PLACES
1.	1	1	1	Natalia Annenko & Genrick Sretensky, USSR	2.0
2.	2	2	2	April Sargent & Russ Witherby, USA	4.0
3.	3	3	3	Melanie Cole & Michael Farrington, Canada	6.0
4.	4	4	4	Stefania Calegari & Pasquale Camerlengo, Italy	8.0
5.	5	5	5	Jodie Balogh & Jerod Swallow, USA	10.0
6.	6	6	6	Sophie Moniotte & Pascal Lavanchy, France	12.0
7.	7	7	7	Kaoru Takino & Kenji Takino, Japan	14.0

SKATE CANADA '88

THUNDER BAY, ONTARIO, CANADA
OCTOBER 27-29, 1988

Campbell's Soups Renews Sponsorship of U.S. Figure Skating Team Through 1994

The United States Figure Skating Association has announced that Campbell's Soups, the first and only national sponsor of the U.S. Figure Skating Team, has signed an agreement to continue its support of the Team through 1994. Campbell's Soups began its relationship with the U.S. Figure Skating Team and the USFSA in 1982.

"Campbell's twelve-year commitment is a rare example of corporate dedication to an Olympic sport," said Dr. Hugh C. Graham, Jr., President of the USFSA. "Campbell has continued to support figure skating year-round. While corporate sponsorship of athletics is popular during the highly visible Olympic years, it often drops off during the years in between. We are thankful that Campbell is an exception and has provided steady support during the all-important training years when athletes are working toward the Olympics."

As national sponsor of the Team, Campbell provides financial assistance to the USFSA and promotional support for amateur figure skating across the country. This support reaches the U.S. World Team and other ranked competitors, as well as USFSA skaters at all levels—skaters who could be members of the U.S. Team in years to come.

"It's been rewarding to help nurture young skaters and watch new talents grow, succeed, and become national heroes," said H. Pierce Pelouze III, Campbell's Vice President - Promotion. "We've gone full-circle with the Team, starting in 1982 as skaters were training for positions on the 1984 Winter Olympic team, through the recent 1988 Olympic Winter Games in Calgary. We look forward to being with our new champions through the next two Olympic seasons in 1992 and 1994.

"With Campbell's six-year sponsorship renewal, we'll have the chance to see skaters who were barely old enough to lace their skates in 1982 become national and world competitors by 1994," Pelouze added.



As national sponsor of the U.S. Team, Campbell has also sought to help educate the general public and build broad interest in figure skating on both the competitive and recreational levels. The oldest Olympic winter sport (debuting at the 1912 Summer Games in London, England), figure skating also has become one of the most popular spectator sports today. It is also one of America's most successful winter sports—twenty-seven percent of all U.S. medals won in Winter Olympic competitions were won in figure skating.

"Though Campbell's relationship with skating didn't become official until 1982," said R. Gordon McGovern, president and chief executive officer, Campbell Soup Company. "Generations of Americans remember warming up after skating with a hot bowl of soup. Campbell's theme, 'M'm! M'm! Good!' relates to figure skating and soup. Both are wholesome, fun, and satisfying . . . and both make you feel good."

Skateology

Continued from page 9

The "Chrome Relief" process in the manufacture of a blade is a rather delicate grinding operation to remove the very thin layers of electro-platings of both nickel and chrome so as to expose an actual edge of hardened steel, the platings themselves being quite soft. This is performed sometimes parallel with the flank of the blade, and sometimes at a negative or a positive angle which for lack of any existing terminology, I have termed "Rake Angle" as identified in Figure 6. (The Rake Angle term has been borrowed from cutting tool terminology and thus seems appropriate since our skate blade does cut into the ice.)

Referring to Figure 6, the Chrome Relief configurations of 'b' and 'c' which follow the side honed contour require exceptional skill and process control, and whether it is functionally beneficial or not, the manufacturer should be given due credit for excellence. Additionally, the surface finishes in these instances are usually excellent, contributing presumably to a smoother faster running edge—testing will tell.

Based on the analysis of forces of Figure 1, our conjecture regarding the zero Rake Angle configurations of 'd,' 'e,' and 'f' is that from a friction standpoint they will prove as effective as configurations 'b' and 'c.' Our testing will determine this.

The negative rake angle configuration of 'g' constitutes a dilemma. Neither the manufacturers nor anyone else seems to have ever explained its advantages or why it is provided. One cannot help but suspect that it is a lower cost process that avoids a more time consuming process needed to provide a zero Rake Angle facet. This method is more commonplace on less expensive blades. It will be most interesting to see how it rates friction wise in relation to the other configurations.

Effects of Blade Thickness

Are there any real advantages to the use of a thinner blade such as used on the MK dance skate, which is about the same thickness as a hockey blade? It is said to provide extra speed.

The rocker radius on this dance blade is identical to that on normal thickness blades

and because a smaller ROH is used during sharpening, the bite angle also remains identical. Hence it will dig into the ice no more, no less, than normal thickness blades for the same weight of skater. The same coefficient of friction will be realized and the same speed will be achieved for the same effort.

Thinness is not synonymous with speed. The speed skate is thin merely to save weight, its speed results from its lack of rocker and ROH.

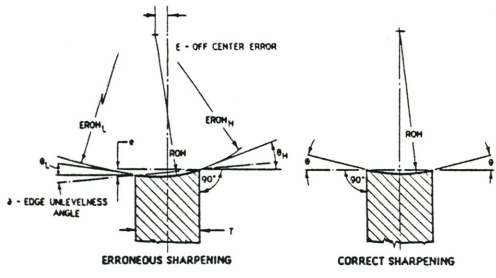
Since the toe pick of this dance skate is of normal thickness any of the freestyle toe pick designs could be utilized. Why are its alleged advantages not used for freestyle and pairs? Since blade thinness is local it remains as strong as any other skate.

Defining Edge Geometry

This topic may be the most useful part of this essay for many readers in that it can be of immediate value in getting the best out of existing skate designs instead of contemplating how they can be improved.

The conventional method of specifying sharpening requirements in terms of a groove radius or ROH does not directly identify actual edge geometry which, for any given ROH, will vary with blade thickness and the inaccuracy of the sharpening. So in order to examine and scientifically evaluate the effects of edge geometry a non-ambiguous parameter is necessary, i.e. one that pertains regardless of blade thickness. The use of the Bite Angle term as illustrated in Figure 13 satisfies this requirement. This was originally derived in my *Skating* magazine article of February 1983 entitled: "Dispelling the Mystique of Blade Sharpening." It also enables the effect of sharpening inaccuracies to be quantitatively expressed in terms of bite angle variation. Edge squareness is then expressed in degrees and is equal to the difference in bite angles of the two edges.

Another useful parameter that has since been derived is the Equivalent Radius of Hollow (EROH) which is expressed in two values, one for the high edge, $EROH_H$ and another for the low edge, $EROH_L$. These enable a sharpening error to be evaluated as a percentage of the actual radius applied. An additional equation derives the off-set of the radius with respect to the centerplane of the blade, which is the amount that the sharpener should have raised or lowered the skate



- e = UNLEVELNESS OR OUT-OF-SQUARENESS Inches/1000
- δ = UNLEVELNESS OR OUT-OF-SQUARENESS ANGLE Degrees
- θ = REQUIRED BITE ANGLE Degrees
- θ_H = ACTUAL BITE ANGLE ON HIGH EDGE = θ + δ Degrees
- θ_L = ACTUAL BITE ANGLE ON LOW EDGE = θ - δ Degrees
- ROH = RADIUS OF HOLLOW - OR GROOVE RADIUS Inches
- EROH_L = EQUIVALENT RADIUS OF HOLLOW (low edge) Inches
- EROH_H = EQUIVALENT RADIUS OF HOLLOW (high edge) Inches
- T = BLADE THICKNESS Inches
- E = OFF-CENTER ERROR (GRINDING WHEEL DISPLACEMENT ERROR) Inches

Bite angle $\theta = \sin^{-1} \frac{T}{2(ROH)}$

Erroneous bite angles θ_H or $\theta_L = \theta \pm \delta$ degrees

$EROH_L = \frac{T}{2 \times \sin \theta_L}$ degrees $EROH_H = \frac{T}{2 \times \sin \theta_H}$ degrees

EDGE UNLEVELNESS $e = T \times \tan \delta$ inches

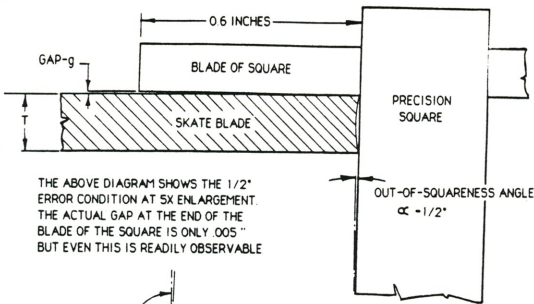
GROOVE OFF-CENTER $E = ROH \times \sin \delta$ inches

FIGURE 13 EDGE GEOMETRY DEFINED

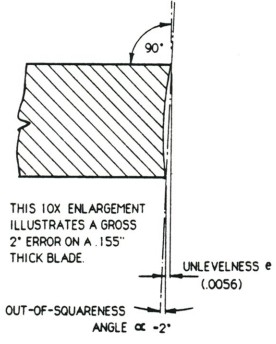
1.5" ROH PATCH SHARPENING
.155" BLADE THICKNESS

	ZERO ERROR	EDGE OUT-OF-SQUARENESS δ DEGREES				
		0.25	0.50	1	2	3
BITE ANGLE DEGREES	3	θ _H 3.25 θ _L 2.75	3.50 2.50	4.0 2.0	5.0 1.0	6.0 0
EQUIVALENT ROH INCHES	1.5	1.36 1.60'	1.26 1.76	1.1 2.2	0.88 4.4	.73
BITE ANGLE ERROR ± %	0	8.3	16.6	33	66	100
ROH ERROR%	0	10 7	16 17	27 46	42 290	51
EDGE UNLEVELNESS INCHES	0	.0007	.0014	.0028	.0056	.0084
GROOVE OFF CENTER INCHES	0	.0065	.013	.026	.052	.078

FIGURE 14 ERROR ANALYSIS CHART



THE ABOVE DIAGRAM SHOWS THE 1/2° ERROR CONDITION AT 5X ENLARGEMENT. THE ACTUAL GAP AT THE END OF THE BLADE OF THE SQUARE IS ONLY .005" BUT EVEN THIS IS READILY OBSERVABLE



THIS 10X ENLARGEMENT ILLUSTRATES A GROSS 2° ERROR ON A .155" THICK BLADE.

OUT-OF-SQUARENESS ANGLE DEGREES α	UNLEVELNESS INCHES e		GAP AT END OF 6" LONG SQUARE BLADE g
	T=.11	T=.155	
1/4	.0005	.0007	.0026
1/2	.001	.0014	.005
1	.002	.0028	.010
2	.004	.0056	.021
3	.006	.0084	.031

FIGURE 15 RELATIONSHIP BETWEEN EDGE OUT-OF-SQUARENESS ANGLE AND EDGE UNLEVELNESS

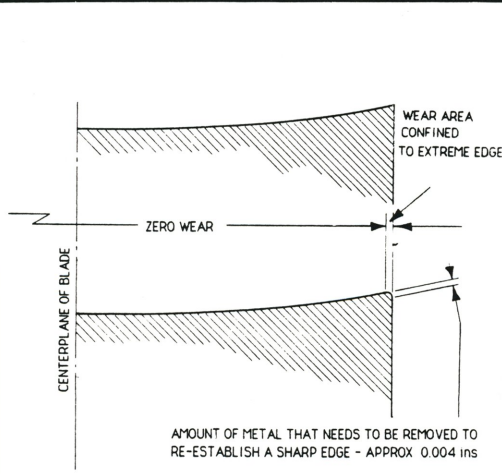


FIGURE 16 EXTENT OF EDGE WEAR (TO SCALE)

relative to the grinding wheel in order to have avoided the error. The relevant equations are given in Figure 9.

These equations were used to construct the error analysis table of Figure 14. (A full complement of these tables is available in the author's *Skateology Manual*.) With these tables it is now very easy to assess the exact effect of sharpening inaccuracies. Bite angle and EROH errors are tabulated against five values of edge unlevelness (edge out-of-squareness) from $1/4^\circ$ thru 3° .

By way of example, assume an edge unlevelness angle of 2° in a patch sharpening of $1.5''$ ROH, and a normal blade thickness of $0.155''$. Enter the table at the 1° column and you will find that instead of identical Bite Angles of 3° , one will be 5° the other 1° , errors of 66%! In terms of EROH, instead of $1.5''$ radius the equivalent radii of hollow would be $0.88''$ at the high edge and $4.4''$ at the low edge, errors of 42% and 290%! It will be noted that these huge inaccuracies are the result of an edge unlevelness of only $0.0056''$, about the thickness of a piece of paper!

A similar edge unlevelness in a freestyle blade will provide an 11° bite angle on the high edge and a 7° bite angle on the low edge. This is a pretty bad sharpening, but even worse has been found on the blades of top competitive skaters who were experiencing performance shortcomings.

Checking for Edge Levelness: One of the most practical methods of accurately checking edge levelness is to use a precision toolmaker's square as illustrated in Figure 15. The accompanying chart relates misalignment of the square to edge levelness in degrees. On flat sided blades it is very simple, and assuming that a blade is straight and planar (no twist), a careful sharpener should be able to hold edge levelness to $1/4^\circ$. With this degree of accuracy, the skater should be able to return to the ice following a sharpening without any adjustment to technique whatsoever. For side honed blades a greater degree of judgement is involved, and of course the accuracy of the side honing is an unknown (see discussion above), but with luck the sharpener should be able to hold $1/2^\circ$ accuracy. Sharpening inaccuracies in excess of this will progressively cause adaptability problems.

Sharpness, Keeness, and Bluntness: Sharpening, whether it be of a skate or a cutting tool of whatever description, implies the maintenance of an existing correct geometry while restoring the cutting edge to perfect keenness. The Sharpener may also correct or modify blade or edge geometry but this process is not really sharpening until the final few cuts when the final edge keenness is achieved.

Many skaters are totally unaware of the exact mechanism of bluntness and they often use the term sharpness meaning bite or bite angle identified as θ in Figure 13. Bluntness results from a wearing down of the extreme edge as shown in Figure 16. It is supposedly the dust particles frozen in the ice that are the prime cause of this wear. Bluntness can be viewed by poisoning the blade so that light will reflect from the minute surface that the wear is producing at the very edge of the blade. Newly sharpened, perfectly keen edges will not reflect light in this manner because they have no surface from which light could reflect. Such extremely keen edges, although fantastic for freestyle are usually dulled slightly for satisfactory patch skating.

For freestyle and dance, when this wear reaches a width of approximately $0.004''$ as indicated to scale in Figure 16, you are ready for a sharpening. Some skaters, having had very poor sharpening experiences, will delay until their edges are so badly blunted that even with the best of re-sharpenings they will still have considerable adjustment to make. Of course, damage from stepping on concrete or a nail or clanging one's skates together, is another reason for a sharpening and is usually more consuming of the blade.

It should be explained that the considerable research needed for this technical presentation was not occasioned by mere inquisitiveness. As the inventor and manufacturer of the precision ICEskate Sharpener and Edge Gauging equipment, blade design perturbations gradually came to light. A rational understanding of the problems was needed to advise customers.

This comprehensive review of skating fundamentals, blade and skate peculiarities, design idiosyncracies, and sharpening problems establishes a scientific basis for future reporting on blade performance research activities of the USFSA.

Calendar

OF EVENTS

JANUARY 1989

- 7-8 **4th Lake Placid International Precision Skating Competition.** For information contact: Nona Bafo, Chairman, 83 Lenden Ave., Buffalo, NY 14214, 716-837-3683.
- 9-14 **Eastern Sectional Championships,** sponsored by the Darien SC of So. Ct., at the Darien Ice Rink, Darien, CT. For information contact: Ms. Ellie F. Kimelman, 31 Bronxville Glen Dr., Bronxville, NY 10708, 914-237-3962.
- 27-28 **The Magic Carpet - Fantasy on Ice,** ice show sponsored by the Pittsfield FSC, at the Pittsfield Boys' Club, 16 Melville St., Pittsfield, MA 01201. For information contact: Mary Rentz, 107 Northumberland Rd., Pittsfield, MA 01201, 413-443-6732.
- 28 **Fraser Mid America Precision Team Championships,** sponsored by the Fraser FSC, Fraser, MI. Juvenile, Intermediate, Novice, Junior, Senior, and Adult events. For information contact: Russ Brown, 43310 Ulman, Sterling Heights, MI 48078, 313-247-5915.
- 28-29 **Santa Rosa Winter Precision Classic/1st Pacific-Western International Precision Team Skating Competition,** will be held at the Redwood Empire Ice Arena, 1667 West Steele Lane, Santa Rosa, CA 95403. For information contact: Terrie Gershman, 707-523-4523, Lois Benson, 707-528-1924, or Nola Joy Carello, 916-362-6477.

FEBRUARY

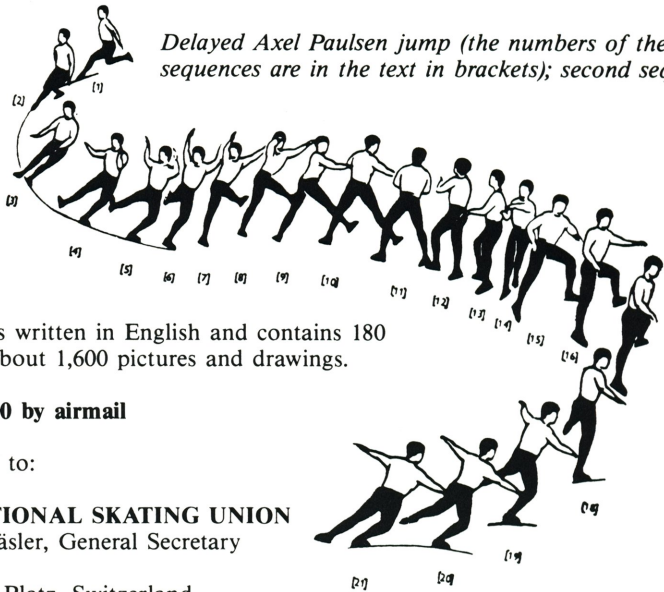
- 4 **The Seventh Annual Calgary Rose Bowl Precision Skating Competition,** hosted by the Calalta Community FSC, at the Father David Bauer Arena, Calgary, Alberta, Canada. All categories welcome. For information contact: Mrs. Donna Cardwell, Chairman, 71 Mid-

lawn Green S.E., Calgary, Alberta, Canada T2X 1A9, 403-256-6854.

- 4-5 **Winterfest III International Precision Competition,** sponsored by the Buffalo SC, at the Buffalo Memorial Auditorium, Buffalo, NY. For information contact: Beth Ruddy, 1141 Delaware Ave., Buffalo, NY 14209, 716-886-0729.
- 10-12 **Laval International 1989,** international precision skating competition, sanctioned by the CFSA and USFSA, to be held in Laval City, Quebec, Canada. For information contact: Laval International, 4939 De La Fabrique Street, Laval (Quebec) Canada H7C 1E4, 514-661-6767.
- 10-12 **Marquette International Open,** competition sponsored by the Marquette FSC, at the Lakeview Arena, Marquette, MI 49855. For information contact: Robert Hampton, 1512 Lynn Avenue, Marquette, MI 49855, 906-228-6678.
- 10-12 **North Country Figure Skating Competition,** sponsored by the St. Cloud FSC, at the St. Cloud Municipal Sports Center, St. Cloud, MN 56301. For information contact: Janet Wheeler, 612-252-9554.
- 17-19 **Colorado Mid-Winter Invitational,** sponsored by the Pueblo FSC, at the Pueblo Plaza Arena, Pueblo, CO. All events, except figures. For information contact: Mike Sullivan, 2115 Elmwood Lane, Pueblo 81005, 719-543-1746.
- 17-19 **9th Annual Garden City FSC Competition,** sponsored by the Garden City FSC, at the Garden City Civic Arena, 200 Log Cabin Rd. (Cherry Hill at Meriman), Garden City, MI 48135. Figures, Free Skating, Compulsory, Short, Interpretive, Pairs, Similar Pairs, and Solo Dance events, Beginner thru Senior levels. For information contact: Jack McMahon, 31781 Bock Rd., Garden City, MI 48135, 313-427-2790.
- 18-19 **The Edith Scheonrock International Competition,** sponsored by the Port Huron FSC, at the McMorran Place Arena, Port Huron, MI 48060. For information contact: Ann Murphy, 313-987-3506.
- 25-26 **Erie Invitational,** sponsored by the Westminster FSC of Erie, at the Erie Civic Center, 809 French St., Erie, PA. Freestyle, Compulsory Moves, Interpretive, Similar Pairs, and Solo Dance events. For information contact: Donna Cerami, 814-825-6513, or Renee Kloecker, 814-456-5794.

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MARCH

- 4 **1989 Skate at the Park**, sponsored by the Spokane FSC, at the Riverfront Park Ice Palace, Spokane, WA. Sanctioned non-qualifying freestyle competition featuring Pre-Preliminary through Novice events. For information contact: Kay Gill, 1-800-456-3AAA.
- 3-5 **14th Annual Creve Coeur Figure Skating Competition**, sponsored by the Creve Coeur FSC, at the Creve Coeur and Queeny Park Ice Arenas, MO. Freestyle, Compulsory Moves, Pairs, Figures, Interpretive, and Dance events. For information contact: Shirley Sisson, 106 Morewood Dr., Manchester, MO 63011, 314-394-4947.
- 3-5 **That's Entertainment**, ice show sponsored by the New Ulm FSC. 150 skaters in comedy, group, and special numbers. Guest appearance by Olympic skater Grzegorz Filipowski. For information contact: Kaye Green, R.R. 5, New Ulm, MN 56073, 507-354-5708.
- 10-12 **Niagara International Competition**, sponsored by the Buffalo SC, at the Dann Memorial Rink, Buffalo, NY. Singles, Dance, and Precision events. For information contact: Beth Ruddy, 1141 Delaware Ave., Buffalo, NY 14209, 716-886-0729.
- 11 **Pittsfield Invitational Competition**, sponsored by the Pittsfield FSC, at the Pittsfield Boys' Club Rink, 16 Melville St., Pittsfield, MA 01201. Freestyle, Dance Solo, and Showcase events. For information contact: Nancy Regan, 47 Pollock Dr., Pittsfield, MA 01201, 413-442-5637.
- 16-19 **17th Annual Ice Travaganza**, ice show sponsored by the Wyandotte FSC, at the Yack Arena, Wyandotte, MI. For information contact: Mary Chapman, 313-675-5874.
- 18-19 **Test Session**, sponsored by the FSC of Watertown, at the Watertown Ice Arena, William T. Field Drive, Watertown, NY 13601. For information contact: Kathy Lupia, Test Chairman, 315-782-0581.
- 30 **1989 Eastern Precision Championships**, hosted by the Warwick Figure Skaters, to be held at the Lynch Arena, Pawtucket, RI. For information contact: 1989 National Precision Championships, P.O. Box 8439, Warwick, RI 02888.
- 30 **1989 Midwestern Precision Championships**, hosted by the Warwick Figure Skaters, at the Thayer Arena, Warwick, RI. For information contact: 1989 National Precision Championships, P.O. Box 8439, Warwick, RI 02888.

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1989 WORLD FIGURE SKATING HALL OF FAME NOMINATION FORM

All nominees for the World Figure Skating Hall of Fame are selected by the general public. Nominees are not limited to living persons nor to U.S. citizens and need not be members of the USFSA. Any person meeting the qualifications below is eligible.

Use this form to nominate those persons that are worthy of election to membership in the Hall of Fame and who meet the qualifications in any one of the categories listed below. Only one nomination form per person each year will be accepted and no more than ten nominees in total may be included on each form.

1. Skaters from throughout the world who have compiled an outstanding competitive record and who have made a noteworthy contribution in style or technique and have been retired from competitive skating for at least ten years.
2. Persons who have made a noteworthy contribution to figure skating in a non-skating capacity through service to an amateur figure skating association and have not been active in such capacity for at least five years.
3. Persons who have made a noteworthy contribution to figure skating in a non-amateur capacity. Non-teaching professionals must have been retired at least five years, while teaching professionals must have at least twenty-five years of experience as such.

Following compilation of all nominations received by the closing date of February 1, 1989, the 27 Hall of Fame Electors will vote for the eligible nominees in each category. The announcement of the nominees elected will be made at the Annual Meeting of the USFSA Governing Council in May 1989:

My nominees to the Hall of Fame are:

Name _____

Address (City, State, Zip Code) _____

Clip or reproduce the form and mail to: Mr. Theodore G. Clarke, Chairman, Hall of Fame Electors, c/o USFSA, 20 First Street, Colorado Springs, CO 80906.

Deadline for receipt of this form is February 1, 1989.

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New Test Abbreviations are as follows: PRE = Preliminary Figure; 1 = First Figure; 2 = Second Figure; 3 = Third Figure; 4 = Fourth Figure; 5 = Fifth Figure; 6 = Sixth Figure; 7 = Seventh Figure; 8 = Eighth Figure; PF = Preliminary Free; JF = Juvenile Free; IF = Intermediate Free; NF = Novice Free; JRF = Junior Free; SRF = Senior Free; PPR = Preliminary Pair; BPR = Bronze Pair; SPR = Silver Pair; GPR = Gold Pair; P DT = Preliminary Dance Test; BR DT = Bronze Dance Test; PS DT = Pre Silver Dance Test; S DT = Silver Dance Test; SFD = Silver Free Dance; PG DT = Pre Gold Dance Test; G DT = Gold Dance Test; GFD = Gold Free Dance; I DT = International Dance Test; B ADT = Bronze Adult Dance Test; PS ADT = Pre Silver Adult Dance Test; S ADT = Silver Adult Dance Test; PG ADT = Pre Gold Adult Dance Test; G ADT = Gold Adult Dance Test.

GOLD FIGURES

Aileen Kelly, SC of Lake Placid; Allyson Fish, SC of Lake Placid; Anne Hall, Greater Milwaukee FSC; Carol Wittschieben, Metropolitan FSC; Carolyn Fisbeck, ISC of Indianapolis; Cynthia Douglas, Rocky Mountain FSC; Dawn Latona, Old York Road SC; Elena Tomelden, Washington FSC; Elizabeth Wright, Colorado SC; Janene Meyer, Professional; Julia Simkin, SC of Rockland, New York; Kaia Halvorson, Lakewood WC; Kathryn Ruggles, SC of New York; Mary Shaeffer, Troy SC; Priscilla Fowler, Birmingham FSC; Stephanie Defilippo, SC of Hartford.

GOLD FREE

Aileen Kelly, SC of Lake Placid; Barret Mulligan, Professional; Christina Kimball, Atlanta FSC; Dawn Latona, Old York Road SC; Elizabeth Wright, Colorado SC; Jennifer Leng, SC of Boston; Jennifer Itoh, Los Angeles FSC; Jonathan De Paz, SC of Boston; Kimberly Schebig, Greater Milwaukee FSC; Melissa Blair, Atlanta FSC; Michelle Pelzel, Fraser FSC; Nicole Toye, SC of Morris, New Jersey; Shana Lynn Tremmer, Philadelphia SC & HS; Stephanie Kroll, Wagon Wheel FSC.

GOLD DANCE

Brett Drury, Broadmoor SC; Deanna Cosgrove, Salt City Figure Skaters; Frank Singley, Jr., Winterhurst FSC; Heather Robertson, Detroit SC; Heidi Wehr, Portage Lake FSC; Jacquelyn Dunseth, Detroit SC; Jeannette Jang, SC of the Adirondacks; Jennifer Olson, Midland FSC; Jennifer Goolsbee, Detroit SC; Kanako Koinuma, Detroit SC; Laura Beth Cash, WC of Indianapolis; Maria Rodowski, SC of Wilmington; Regina Woodward, Philadelphia SC & HS; Robert Ferendo, WC of Indianapolis.

GOLD ADULT DANCE

Ruth Axtell Carney, Sun Valley FSC.

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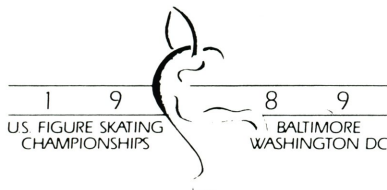
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EVANSTON FSC: PRE–Barbara Baker, Madeleine Biber. 1–Beth Lynn Lichtenstein, Gretchen Van Dyke, Joanne Recometa. PF–Jessica Swan, Madeleine Biber. NF–Beth Lynn Lichtenstein. S ADT–Patricia Ewert.

FALMOUTH FSC: JF–Allyson Foley.

SC OF FLORIDA: PRE–Brooke Poiroux, Heather Fass, Jean Joo Joh, Jennifer Joh. 1–Kellie Tagert. 2–Lily Mazala. 3–Jennifer Borell, Karen Rodriguez. PF–Brooke Poiroux, Donald Emrick, Heather Fass, Jean Joo Joh, Jennifer Joh. JF–Shelli Jo Beers. IF–Jennifer Borell. P DT–Jessica Adams, Jennifer Houghton, Terrell Nicholson. BR DT–Lily Mazala. PS DT–Juliana Olney.

FORESTWOOD FSC: 1–Kelly Parker, Kristina Parker, Tammy Yurcik. P DT–Wendy Borkowski, Kristina Parker.

ISC OF FORT COLLINS: 1–Jennifer Visocky.

FORT WAYNE ISC: PRE–Kelly Gramling, Melissa Kuhns. 1–Kerry Nadolny. 2–Sheri Stapleton. 3–Jennifer Murphy. 5–Stephanie Dobej. PF–Kelly Gramling, Melissa Kuhns. JF–Sheri Stapleton. IF–Melissa Porter.

ISC OF FRESNO: JRF–Jennifer Lyles.

FULTON FSC: 7–Sandra Davis.

GALLERIA-HOUSTON ISC: PRE–Lauren Calderera, Loubel Cruz. 4–Marina Wetmore. PF–Loubel Cruz, Michelle Bowley. NF–Marina Wetmore.

GARDEN CITY FSC: 3–Kelley Becklehamer. 5–Shelly Bialo. 6–Mel Chapman. IF–Jeanine Gilhool, Laura Lynn Vigilante. BR DT–Angela Pratt. PS DT–Kari Ann Keyanchuk.

GARDEN STATE SC: 1–Dana Andrea, Erinn Stivala. PF–Danielle Foran, Jill Feigenbaum. JF–Allison Cebrick, Amy Sorrentino. BR DT–Dana Andrea.

GARFIELD HEIGHTS FSC: PRE–Elizabeth Steck, Jeffrey Steck.

GENESEE FSC: PRE–Leigh Dessauer. 1–Kelly McCormick. 3–Robert Caldwell, Jr. P DT–Leigh Dessauer. BR DT–Maria Foran.

GLACIER FSC: 1–Kristen Vangsnesh. JF–Kristen Vangsnesh.

GLENS FALLS FSC: 1–Emily Vellano. 2–Erin Magee, Jessica Clark. JF–Emily Vellano.

GLENWOOD FSC: 1–Wendy Wilke. P DT–Erin O’Nail, Kristen Johnson, Miki Kern, Rhiannon Tennant, Sharon Kokal, Wendy Wilke. BR DT–Sharon Kokal. S DT–Heather Ward. PG DT–Audrey Pawlowski.

GOLDEN STATE FSC: PRE–Jonathan Watanabe. 3–Michelle Hughes. PF–Jonathan Watanabe. JF–Rebecca Long.

GREAT BAY FSC: BR DT–Nancy Duchesneau.

GREAT FALLS FSC: 4–Amy Smith. NF–Amy Smith.

GREAT LAKES FSC: PRE–Emily Rose Pirronello, Shelby Mull, Veronica Wajda. 1–Nancy Lynn Zyskowski, Terri Palmarchuk. 2–Cristina Delgado. 3–Janelle Gebeau. PF–Emily Rose Pirronello, Veronica Wajda. P DT–Amanda McGill, Felicia Haining. BR DT–Stacy Sue Dorado.

GREAT NECK FSC: PRE–Vicki Isacowitz. PF–Vicki Isacowitz. P DT–Elizabeth Bennett.

GREATER GRAND RAPIDS FSC: 5–Jenna Jackson. PS DT–Jennifer Pate.

GREATER MILWAUKEE FSC: 1–Angela Stucky. 3–Jill Rector, Lisa Badtke. 5–Lisa Meyer. NF–Amy Klotz. P DT–Jill Rector. BR DT–Kelly Ervin.

GREENBRIER FSC: PRE–Christen Zielski, Dawn Dietrich, Jennifer Young, Jessica Margocs, Joey Trizio. 1–Jamie Rossino, Mandy Leygraft. PF–David Forchione, Melissa Fritsche, Shannon Malaney. P DT–Jamie Rossino, Steve Han. BR DT–Carrie Hartwig.

GREENSBORO ISC: 2–Rebecca Newman. JF–Rebecca Newman. BR DT–Jennifer Carolan.

GREENWICH SC: 1–Jane Resor. JF–Holly Dennis.

SC OF HARTFORD: PRE–Carmen Hymes, Paul Scalora. 2–Caroline Carella, Jessica Russo. 3–Rebecca Konerding. 6–Monika Lehky. PF–Carmen Hymes. JF–Caroline Carella, Jessica Russo, Teresa Cowles. IF–Nicholas Sileo, Jr., Rebecca Konerding. JRF–Sarah Bowen. P DT–Heather Solesky.

HAWAII FSC: 2–Alyssa Owen, Duke Aipa. PF–Cathy Higa, Stella Meneses.

HAYDEN RECREATION CENTRE FSC: PRE–Christine Leon, Sarah McKenna. 7–Tara Taylor. PF–Brandon Forsyth, Christine Leon. NF–Andrea Snow, Joelle Carnevale.

HERSHEY FSC: PRE–Joyce Marks, Laura Ferretti. 1–Kimberly Furjanic. 2–Pamela Erisman. 3–Amy Soller. PF–Hope Bikle. P DT–MillieM Toth. PS DT–Michelle Nipple. BPR–Jodi Weindel.

HIAWATHA SC: S DT–Cathy Fiechtner.

HIBBING FSC: PRE–Amy Pogachnik. PF–Amy Pogachnik. JF–Kristi Kirsch. IF–Tara Vanderport. NF–Alison Chamernick.

HICKORY HILL FSC: PRE–Selyn Choi. 1–Elizabeth Schlifftman. 2–Teresa Aiello. 3–Kim Karetsky, Rachel Wilmot. 4–Rachel Stathis. 5–Julie Vozick. 7–Heidi Kaplan, Megan Sandy. IF–Kim Karetsky. NF–Amy Denicola, Rachel Stathis. JRF–Megan Sandy. P DT–Laura Gully. BR DT–Valerie Moskwa. PS DT–Tania Halko. S DT–Andrew Klebanow. PG DT–Audrey Klebanow.

HIGHLAND SC: PRE–Anita Conrad. 1–Kristy Robinson. 2–Carissa Green. 3–Tawnya Smith. 4–Sandy Sandstrom. JF–Anika Ryan, Kimberly Douglas. IF–Lisa Ranee Webster.

HOUSTON FSC: PRE–Kimberly Ortiz. 1–Anna Quino, Eri Kaneko. PF–Kimberly Ortiz. JF–Linda Leivo, Roslyn Fretwell Md. P DT–Jeremy Wyndham, Tiffany Wyndham.

HUDSON-MOHAWK FSC: PRE–Joy Anderson. 1–Kristy Amato. 3–Dana Fiacco, Erin Wojtowicz, Susan Grimm. 4–Jessica Randall. 5–Jill Henry. 6–Elisa Garvey. NF–Jill Henry. P DT–Mark Menard. BR DT–Jo Ann Potzuzki, Mark Menard, Susan Grimm. PS DT–Mark Menard.

I & B CLUB OF WASHINGTON: SFD–Kirk Ian Strotman. PPR–Lisa Gefsky.

ICELAND FSC OF HOUSTON: PG DT–Fredericka Yockey.

ILLINOIS VALLEY FSC: B ADT–Richard Kern.

KALAMAZOO FSC: PF–Megan Dodd. NF–Sarah Way. P DT–Charles Butler, Jr., Eric Scheinfeldt, Erin Butler, Mary Cooley, Michelle Lowe, Sarah Clarke.

KANSAS CITY FSC: PRE–Angela Currie. PF–Angela Currie. P DT–Deborah York, Natalie Cope.

KENT SC: PRE–Scott Omlor. PF–Aja Babics, Scott Omlor. BR DT–Scott Sheets.

LA JOLLA FSC: PS ADT–Lael Kovtun.

LAKE MINNETONKA FSC: 1–Tricia Jacobs. 2–Anne Halvorson.

SC OF LAKE PLACID: PRE–Amy Ahn, Jassy Irvine, Tonio Buonassissi. 1–Sara Britt Gilligan. 2–Amy Agnew. 3–James Binnebose II. 5–Daniel Falcone, Leon John Nesti, Tricia Sabatato. 6–Joanne Proulx, Lauren Legan, Tammie Knox. 7–Heidi Enzmann. PF–Amy Ahn, Jassy Irvine, Tonio Buonassissi. IF–Stephanie Ransom. P DT–Kahlyn Booth, Tara James. BR DT–Lewis Lovett II, Miriam Gelfand. PS DT–James Binnebose II. S DT–Deborah Leclair, Kristen Painter, Tricia Sabatato. PPR–Deborah Leclair. BPR–James Binnebose II.

LAKE REGION SC: JF–Tina Leevers.

LAKWOOD WINTER CLUB: PRE–Stephanie Rowland. 3–Kelly Clark. 4–James Peterson. PF–Stephanie Rowland. IF–Kelly Clark. NF–James Peterson.

LAS VEGAS FSC: 5–Casey Link.

LAUREL RIDGE SC: 1–Kimberly Camarata, Wendy Ostendorf. 6–Allison Cohen. PF–Kimberly Camarata, Wendy Ostendorf. P DT–Gina Pagano.

LITTLE SUN VALLEY SC: 3–Amy Ross. 5–Brenda Rossmelisi. PPR–Heather Goldstein.

LOS ANGELES FSC: PRE–Tamayu Takayama. 1–Jennifer Carr, Kathryn Vaughn. 2–Dawn Pierce, Kathleen Rowlands. 3–Amy Ritter. 4–Danielle Umpierre. 5–Cassie Nuttman, Rebecca Ruhle. 6–Jennifer Castle. 7–Rachelle Delong. JF–Dawn Pierce, Taylor Neff. IF–Amy Ritter. NF–Danielle Umpierre. JRF–Amy Zurlinden. S DT–Janis Almond. PG ADT–Karen Hammock. GFD–Duane Greenleaf. BPR–Wendy Zoucha.

LOUISVILLE FSC: PS DT–Rebecca Rice.

FSC OF MADISON: 1–Heather Keintz. 2–Elizabeth Uhler.

SC OF MAINE: PRE–Anya Freiman, Creighton Runyon, Hillary Tompkins, Jenny Ann Dayton, Melissa Duvall, Tracy Young. 1–Devon Adams, Laura Anne Fitzpatrick. 2–Sooki Danosky. 3–Susan Clair. PF–Anya Freiman,

Ashley Smart, Hillary Tompkins, Jenny Ann Dayton, Melissa Duvall, Tracy Young. JF–Devon Adams. P DT–Anya Freiman, Hillary Tompkins. BR DT–Devon Adams. B ADT–Kay Young.

MANKATO FSC: PRE–Jennifer Jessen, Loukia Janavaras. 1–Bethany Peterson, Erin Pietz, Laura Sheran. 3–Kerri Saye, Loralee Mehrman. PF–Jennifer Jessen, Loukia Janavaras. IF–Ann Green, Judi Campe.

MAPLEWOOD FSC: PRE–Carrie Bohlsen, Emily Lehane, Gina Fiala, Jenelle Charbonneau. 1–Nicki Bartholomew. PF–Cara Williams, Carrie Bohlsen, Emily Lehane, Gina Fiala, Jenelle Charbonneau. P DT–Roni Maas.

MARQUETTE FSC: BR DT–Jaimie Flack. PS DT–Kelly Turnbull.

MASON-DIXON FSC: JF–Moriah Metheny. IF–Autumn Carrozza.

MASSENA FSC: PRE–Nicole Rochefort. 2–Felicity Faucher, Marianne Rivers. PF–Amy Cross, Rebecca Cross. P DT–Angela Serviss, Jennifer Serviss, Morgan Sheets. BR DT–Trina St. Louis.

FSC OF MEMPHIS: NF–Elizabeth Fitzgerald.

MENTOR FSC: PRE–Sarah Tkac. 1–Kimberly Champa, Tiffany Kersten. 2–Jennifer Robinson, Karey Stevens, Leslie Lin Brown. 3–Kristen Marinelli. PF–Allison Strainic. JF–Holly Walkuski. IF–Kristen Marinelli, Tina Jenuleson. NF–Katie MacKinnon.

MESA VERDE FSC: 1–Keyna Cobb. 7–Nancy Goodridge. IF–Christine Luxembourger, Shannon Birk. PPR–Kellie Otis. BPR–Kellie Otis.

METROPOLITAN FSC: PRE–Debra Resko, Sabrina Failler. 1–Antoinette Vickers, Josette Sanacore, Racquel Balsamo. 2–Kasi Binder, Sharon Calleja. 7–Claudia Mirante. PF–Erika Moeller. JF–Amanda Ward, Erika Moeller, Joanne Quail, Sharon Calleja. NF–Jaclyn Ward. P DT–Claudia Mirante, Kasi Binder. BR DT–Devera Stoff, Gerald Bachner.

MIDLAND FSC: PRE–Anne Falardeau, Hilary McInally, Katy Jarvela, Sabrina Paolucci. 1–Lisa Mielock, Melissa Schuberg, Susan Douglass. 3–Nicole Falardeau. 4–Jessica Rainey, Shelby Jarvela. PF–Hilary McInally. JF–Christine Colton. NF–Jodi Lewis. P DT–Katy Jarvela, Shelly Solem. BR DT–Shaun Harrison.

FSC OF MINNEAPOLIS: 1–Amy Marie Latvaaho. 2–Dara Herman, Lynne Vermilyea, Mandy Jean Anderson. 3–Marla Polk. 4–Kelly Sullivan. 7–Susan Saari. NF–Kelly Sullivan. JRF–Kimberly Neuman, Lee Anne Swanson, Michelle Wenz. PG DT–Yvonne Olson.

SC OF MORRIS NJ: PRE–Mark Fenczak, Shannon Dunphy. 1–Blake Miller, Rebecca Scherzer. 2–Christopher Fullagar, Sean Sullivan. 3–Lisa Beth Anderson, Tracey Wychulis. 4–Celia Amy Cohen. 5–Jeanne Busch, Julie Anne Maguire. 6–Suzanne Maguire. PF–Michaael Chin, Shannon Dunphy. JF–Kelly Evans, Lisa Colaluca, Sean Sullivan. IF–Christopher Fullagar. NF–Leigh Diering. P DT–Jennifer Mulvihill, Kelly Murray, Lisa Colaluca, Mark Fenczak, Melissa Keybida, Nicole Suppa, Shannon Dunphy, Tracey Wychulis. BR DT–Anthony Gioia, Kelly Evans, Kristina Doyle, Lisa Beth Anderson, Lise Gloede. S ADT–Mary Lou Gossom. PS DT–Jennifer Swon, Megan Bozios. S DT–Beth Allen, Danielle Raiman. B ADT–Kathy Roche.

NASHVILLE FSC: PRE–Deborah Schenider, Erika Zepernick, John Ruth, John Gerth. 1–John Gerth, Julie Schneider. 5–Regan Ann Wagner. PF–Deborah Schenider, Erika Zepernick, John Ruth, John Gerth. JF–John Gerth. BPR–Heather Alteri, John Harrison.

SC OF NATICK: 1–Tracey McDonough. 3–Lynn Marandett. JF–Rhonda De Vincent. IF–Lynn Marandett, Terri Schofield.

NEW CANAAN WINTER CLUB: PRE–Whitney Talbot.

SC OF NEW HARTFORD: PF–Brittanney Trebnik.

NEW HAVEN SC: 1–Christina Pitts, Diana Dawn Kelley, Lori Sonderegger. BR DT–Christina Pitts, Diana Dawn Kelley.

NEW ULM FSC: PF–Tracy Sandau.

SC OF NEW YORK: PRE–Chanler Covile, Jeremy Watnick. 2–Becky Elin, Joy Ann Dixon. 3–Woomy Hahn. 5–Kerry Krauss. PF–Chanler Covile. JF–Alizah Allen, Becky Kandel. IF–Jessica Lappin. NF–Jheri Di Salvatore. JRF–Marianne Diliberti. PS DT–Becky Kandel. S DT–Heather Dunay. B ADT–Judy White.

NEWBURYPORT FSC: PRE–Dawn Belanger. PF–Dawn Belanger.

NORTH JERSEY FSC: P DT–Annie Cortes, Natalie Campaniolo.

NORTH SHORE SC: 5–Julie Lynn De Marco. 6–Kate-Lyn O’Keefe, Valerie Hopkins. IF–Tricia Mansfield. P DT–Eva Soroka. BR DT–Nicole Malenfant.

NORTH STAR FSC: PRE–Christine Ciccone. 1–Anthony Scuderi. 3–Jennifer Kravetz. IF–Jennifer Kravetz.

NORTH SUBURBAN FSC: PRE–Diana Valdez. 1–Brandy Younce, Nancy Page. PF–Diana Valdez. JF–Stacey Shepler. NF–Elizabeth Swanson.

NORTHEASTERN UNIVERSITY: P DT–Linda Siegrist.

SC OF NORTHERN VIRGINIA: PF–Jordonna Hoffman. NF–Robin Pearce. P DT–Jordonna Hoffman. PS DT–Melissa Pettus. S DT–Robin Pearce.

OGDENSBURG FSC: NF–Tara Newtown. P DT–Erin Cole, Shannon Cole. BR DT–Tonda Clark.

OKLAHOMA CITY FSC: PRE–Julie Emerick. PF–Julie Emerick.

OLD YORK ROAD SC: 4–Suzanne Guiffre. JRF–Stephanie Petrich.

OLDE MONMOUTH SC: B ADT–Frances Jesel.

OVERLAKE SC: PRE–Susan Lyn Torgerson. PF–Susan Lyn Torgerson. P DT–Dawn Marie Finley.

OWATONNA FSC: PRE–Cheryl Starman, Erika Rietz. PF–Cheryl Starman, Erika Rietz.

OXFORD SC: PRE–Krista Hodson.

PALACE FSC: PRE–Sarah Weiss. 3–Heather Melton. PF–Sarah Weiss.

PALM DESERT FSC: B ADT–Patricia Aplet.

PALOMARES FSC: 3–Alexander Jacoby. 4–Julie Weiss. IF–Alexander Jacoby. NF–Julie Weiss. BR DT–Alexander Jacoby, Kim Hall. PS DT–Kristina Feliciano. S DT–Julie Weiss.

PARK FSC: 1–Serah Choi. 2–Tamara Am Saukin.

PAVILION SC OF CLEVELAND HGTS: PRE–Janet McLaughlin. 2–Katie Moose. 3–Lisa Etoy Howell. PF–Janet McLaughlin, La Loja Miah. P DT–Chris Niemczura, Karen Niemczura, Nicole Robinson, Richard Niemczura.

PENGUIN FSC: 1–Jenna Lansek, Maribel Diaz. 3–Marsha Krier. 4–Heather Wagner. JF–Carolyn Schlener, Heather Phillips.

PENINSULA FSC: SPR–Melissa Nelson.

PHILADELPHIA SC & HS: 3–Alexandra Kudrjavcev, Emily Novak, Stacey Shevlin. 7–Emily Nishi. P DT–Lauren Cullen. PG DT–Kathleen McBride. GFD–Regina Woodward. PPR–Ashley Novak, Emily Novak, Heather Young, Kristen Zeitzer, Lydia Morris. BPR–Ashley Novak, Emily Novak, Kristen Zeitzer.

SC OF PHOENIX: PRE–Barbara Ewers. 2–Jacque Taylor. 5–Leanne Mezey. 6–Tammy Fechtig. 7–Vearle Klinger. PF–Allison Todd. JF–Julie Waters. NF–Allison Ewers, Heidi Segert. P DT–Deborah Noll.

PILGRIM SC: PRE–Katherine Sanpere. IF–Peter Abraham.

PITTSBURGH FSC: 3–Emily Smith. 4–Heidi Vollmer. 5–Molly Castille. PF–Elizabeth Krajc. IF–Molly Castille. PS DT–Becky Gilbert. S DT–Lisa Marie Musmanno. SFD–Amy Neff.

PITTSFIELD FSC: 1–Melisa Krzysztof. 3–Julia Savacool. 5–Shannon Hunt. JF–Susanna Douglas. IF–Robert Van Uitert. NF–Shannon Hunt. P DT–Joyce Ryu. BR DT–Bridget Risley, Susanna Douglas. PS DT–Julia Savacool. PG DT–Shannon Hunt.

PORT HURON FSC: PRE–Jennifer Cheng. 2–Andrea Scheurer. NF–Kim Harris. S DT–Jodi Lenore. PG DT–Christene Clay. BPR–Erik Schulz, Stacey Landacre.

PORTAGE LAKE FSC: PRE–Christina De Guzman, Jada Comfort, Jodi Hoffman, Lyn Taavola, Mollie Hodges. 5–Heidi Wehr, Jenny Depuydt. PF–Amy Voelker. JF–Jodi Hoffman. IF–Jenny Depuydt. NF–Julie Halborg, Melissa Archambeau. P DT–Amy Richards, Amy Voelker, Connie Yang, Jada Comfort, Kelly Cima. BR DT–Sandy Loukus.

PORTLAND ISC: 1–Jonas Moiel. 2–Tammy Zuehlke. 3–Karin Morrison, Pamela Brown, Tonya Zuehlke. 5–Tamara Boni. IF–Karin Morrison, Kristen Fitch. BR DT–Angela Carhart. S DT–Jennifer Vance.

POTSDAM FSC: PRE–Kristin Warr. 1–Elizabeth Coleman, Kristin Gravander, Patty Coskran. PF–Catherine Carroll, Kristin Warr. P DT–Amy Smith. BR DT–Catherine Carroll. PS DT–Courtney Shearer, Elizabeth Coleman. S DT–Kristen Elliott.

PRINCETON SC: 1–Lucienne Papon. 3–Christina Fitzgerald. 6–Lou Anne Petersen. IF–Christina Fitzgerald.

PROVIDENCE FSC: 2–Jennifer Cavallaro.

PUEBLO FSC: 1–Janelle Kirby, Melissa Jimenez. PF–Samuel Tom Rougas. P DT–Melissa Wayt.

QUEEN CITY FSC: 1–Breaune Heldman. 4–Julia Lippert. 5–Julie Neumark. NF–Julia Lippert. BR DT–Anne Means. S ADT–Cathy Hartley.

RARITAN VALLEY FSC: JF–Sumie Maldonado.

RED RIVER VALLEY FSC: 4–Laura Jacobson. PS DT–Courtney Mann.

RIM OF THE WORLD FSC: 3–Bj Risnes. IF–Bj Risnes. NF–China Lee Carl.

ROCHESTER FSC: 1–Amy Opdahl. 2–Debbie Thompson, Kelli Beckel. JF–Debbie Thompson.

FSC OF ROCKFORD: PRE–Edith Alma Ayala, Garrett Krug, Stephanie Anderson. 2–Kelly Wilson, Lisa Bell, Sunny Domark. 3–Jennifer Nordlof, Rebecca Metcalfe. 4–Jennifer Finley. 6–Karissa Gedko. PF–Anne-Miche Reif, Edith Alma Ayala, Heather Finch, Stephanie Anderson. NF–Carrie Matty. JRF–Brei Johnson.

SC OF ROCKLAND, NEW YORK: 1–Jennifer Conn. 2–Clara Jane Rice, Kristen Moyley. 3–Lisa Heinrich, Margo Conti, Nickie Andrews. 6–Michael Chack. 7–Jacqueline Isabella, Tanya Pollack. JF–Clara Jane Rice, Iris Erguder, Kristen Moyley. NF–Mayumi Yamada. JRF–Michael Chack. P DT–Leslie Ratner.

ROCKY MOUNTAIN FSC: PRE–Heidi Chan. 1–Holly McKenzie, Jackie Tafoya. 2–Denise Orr. 5–Kimberly Wordekemper, Lynette Hoshiko, Michelle Roark. PF–Heidi Chan. JF–Bonny Lee Clore, Daniel Rudnicki. PPR–Daniel Rudnicki.

ROSEVILLE FSC: JF–Jennifer Butek. P DT–Courtney Bodley, Janis Livingston, Jody Kay Meehan, Julie Metzger, Lanita Davison, Lynne Maker, Teri Schank.

RYE FSC: 1–Laura Kaufmann. 3–Skye Tiedemann. PF–Laura Kaufmann. JF–Kerry Lenahan. IF–Skye Tiedemann. NF–Sheryl Mozur.

SC OF SACRAMENTO: 2–Jennifer Senn. 3–Dawna Fender. JF–Jennifer Senn.

SALT CITY FIGURE SKATERS: PRE–Celeste Treadwell. PF–Celeste Treadwell.

SAN DIEGO FSC: PRE–Maggie O'Donnell. 4–Meghan Shafer. PF–Maggie O'Donnell. JF–Christina Ruckle. NF–Meghan Shafer. P DT–Brenda King, Kenneth Jordan, Mary Lou Newman, Michael Thompson, Paul Pollock, Rodger Beaton. PG DT–Sandy Varjacic.

SAN FERNANDO VALLEY FSC: JF–Roseann Crowe.

SC OF SAN FRANCISCO: JF–Tanya Soohoo. IF–Sonya Soohoo.

SEATTLE SC: PRE–Andrea Huebner, Anna Lisa Pesek, Jaime Thompson. 1–Sara Wittenberger. 3–Daniel Gray. 4–Andrea Yamagiwa. 7–Carese Busby. PF–Andrea Huebner, Anna Lisa Pesek, Jaime Thompson. JF–Erin O'Connor, Joli Pesek. BR DT–Dottie Brown, Rhea Bez. SFD–Elizabeth Buhl, Tony Darnell. B ADT–Erika Hanson.

SHAKER FSC: PRE–Laurie Schlein. 1–Allyson Schmidt, Debbie Libman, Jorey Friedman, Susan Krupa. 2–Kristy Bujdos. 3–Amanda Bennett, Miriam Holmes. 4–Amy Bujdos. 5–Andrea Conrad. PF–Ian Prior, Priscilla

Prior. JF–Kim Butler. IF–Heidi Stover, Miriam Holmes. NF–Amy Bujdos, Ryan Zeltner. P DT–Eve Harrington, Heather Pavlik, Lisa Bodnar. BR DT–Meg Grim. PS DT–Nicole Rae Wolf. S DT–Sametra Wallace.

SILVER BLADES FSC OF KC: PRE–Laura Pummill. 1–Anne Richter, Jessica Klinghoffer, Jessica Thompson, Leigh Handley, Lisa Crowder, Olisa Warren. 2–Stephanie Woodman, Tana Lambert. 3–Jenna Pittman, Mary Uher. 5–Regina Stanek. PF–Laura Pummill. JF–Stephanie Woodman, Tana Lambert. IF–Jenna Pittman. P DT–Jamie Coffman, Kelly Martin, Kristopher Berkland.

SILVER SKATE FSC: 1–Amy Lea Meier. 4–Jeffrey Black. JF–Sarah Rodway.

SKANEATELES FSC: S DT–Trina Robinson. PG ADT–Peter Murfitt.

SKOKIE VALLEY SC: PRE–Caroline Reenemann, Heather Hogg. 1–Alyson Bonkowski, Amanda Mareta, Beth Barengo, Dana Glassman, Megan Brannstrom, Ryanne Wood. 2–Angela De Vita, Patricia Fotsch, Rebecca Brown, Tracy Forbes. 5–Abigail Leavitt, Jeffrey Apfel, Rebecca Buening. 7–Elizabeth Rosenblum, Renee Dittmer. PF–Abbey Walker, Caroline Reenemann, Heather Hogg. JF–Patricia Fotsch, Rebecca Brown, Tracy Forbes. NF–Deanna Luzzo, Lynn Luzzo, Mark Forbes. JRF–Dana MacDonald. P DT–Emily Beatty, Suellyn Rossman, M.D. PS DT–Deborah Wagner.

SMITHFIELD FSC: 3–Holly De Angelis, Wendy Altieri. JF–Amy Furia. NF–Danielle Proulx. GFD–Melissa Stockwell.

SOUTH MOUNTAIN FSC: 2–Jennifer Mokos, Melissa Gunther. 6–Heidi Vanderhoof. PF–Erin Hunt, Jennifer De Bruyn. JF–Jennifer Mokos. P DT–William Schmitz. BR DT–Jennifer Mokos. S DT–Alyson Morrow.

SC OF SOUTHERN NEW ENGLAND: 1–Kristen Strotny, Misty Cahoon. PF–Kristen Strotny. IF–Jason Sylvia.

SOUTHERN NEW HAMPSHIRE SC: PRE–Anne Gaucher, Sunny Austin. PF–Anne Gaucher.

SPRINGFIELD FSC: PRE–Amanda Prior, Jaime Clark. 1–Kerry Sands. 2–Hilary Juretic, Shenoah Roseberry. 3–Kristin Knotts. 5–Marchelle Werner. PF–Amanda Prior, Jaime Clark. JF–Hilary Juretic, Shenoah Roseberry. P DT–Cara Frasco. BR DT–George Niehaus.

SC OF SPRINGFIELD: PS DT–Sarah Foskett.

ST. CLAIR SHORES FSC: PRE–Andrea Adams, Kristin Barrow, Lani Kawamoto, Samantha Damren, Sarah Ripley, Tracy Ripley. 1–Katie Callahan. 2–Michele Kryszak, Nicole Gimpert. PF–Andrea Adams, Kristin Barrow, Lani Kawamoto, Samantha Damren, Sarah Ripley, Tracy Ripley. JF–Jennifer Cornwith, Nicole Gimpert.

ST. CLOUD FSC: 1–Amanda Johnson, Jennifer Hall, Jenny Velline, Julie Theisen, Kristy Tschida. 5–Molly Hilger. PF–Jennifer Bateman. JF–Kelly Wheeler. IF–Aimee Melville, Heather Wahl, Theresa Lombardi.

ST. LAWRENCE FSC: IF–Barbara Grudowski. BR DT–Brooke Martin, Stacy Martin.

ST. MORITZ ISC: 2–Kimberley Weersing, Nichole Tatro. 3–Jennifer Luckhurst. 7–Candace Taylor-Weber. JF–Kimberley Weersing, Rachel Jamawatr. IF–Jennifer Luckhurst. S DT–Jennifer Luckhurst. SPR–Brad Doll. PS ADT–Sue Krizelman.

ST. PAUL FSC: 3–Heather Zimmermann. P DT–Jennifer Watkins. BR DT–Joy Carey.

STOCKTON FSC: IF–Kelley Young.

STONE MOUNTAIN FSC: PRE–Alessandra Burton, Jennifer Hill, Kate Kaszycki, Rebecca Strain. 1–Alanna Burton, Amy Collins. 2–Mary Beth Neace. PF–Alessandra Burton, Farrell King, Haley Curtis, Kate Kaszycki, Melinda Scales, Rebecca Strain. JF–Amy Collins, Mary Beth Neace. IF–Michelle Briggs.

STONEHAM FSC: PRE–Bevin Williams. PF–Robert Reardon. JF–Allison Sarno.

SUN VALLEY FSC: PRE–Natalie Kueneman, Pamela Chang. 3–Audrey McClure. PF–Jodi Brock, Natalie Kueneman, Pamela Chang. JF–Holly Lallman, Maura McGary, Susan Fisher. P DT–Karen Cameron. BR DT–Maura McGary.

SUNCOAST FSC OF FLORIDA: 2–Leslie Taylor. JF–Crystal Ash.

SC OF SUNRISE: 1–Marisa Miner, Tonya Bervaldi. 2–Erika Grigg. 3–Barbara Pump, Meredith Montgomery. 5–Todd Pleeter. PF–Robin Fields. JF–Erika Grigg. IF–Meredith Montgomery. BR DT–Meredith Montgomery. PPR–Todd Pleeter. BPR–Todd Pleeter.

SYMMETRIC FSC: 2–Aline MacInnes.

TIDEWATER FSC: P DT–Erin Sonn.

TIMBERLINE SC: P DT–Stephanie Gall.

TIMBERLINE FSC OF READING: PF–Adrienne Di Cecco, Ami Counts, Heidi Imbody.

TRENTON COMMUNITY SC: 2–Erin Oboza.

TRI-COUNTY FSC: PRE–Matthew Tully, Rachel Boyum. PF–Anita Allman, Rachel Boyum.

TRIANGLE FSC: PRE–Sean David Tilly. 1–Robert Radcliffe. PF–Sean David Tilly.

TROY SC: 1–Heather Beaty, Sara Beth Andrews. NF–Eva Rogers. P DT–Kristin Hamilton. SFD–David Kastan. PG DT–David Kastan.

TUCSON FSC: 1–Danielle Greenberg, Leslie Ewing.

TULSA FSC: PRE–Andrea Chieppo, Courtney Coman, Joaquina Skinner. 4–Jennifer Hicks, Kristin Parker. 5–Jane Drach. PF–Andrea Chieppo, Courtney Coman, Joaquina Skinner. BPR–Jacqui Pruett, Robert Baker.

TWIN STATE FSC: PRE–Linda Lee Costello. PF–Linda Lee Costello.

UTAH FSC: PRE–Jennifer Pollom, Kim Taylor. 1–Johnny McKinnon, Jennifer Palmer. 2–Macy Pew. 3–Kevin Garrett, Shaunna Smith. 4–Angie Lawson. PF–Jennifer Pollom, Kim Taylor. JF–Jennifer Jones, Macy Pew, Nikki Murdock. IF–Amby Pew, Kevin Garrett, Shaunna Smith, Tiffany Taylor. NF–Angie Lawson, Melissa Grevstad.

BR DT–Pilarr Parkinson. GFD–Kirsten Novak.

SC OF UTICA: 1–Jennifer Bogdan. 3–Kathy Goetz, Mary Spinelli. PF–Brenda Pecor. P DT–Roberta Palczynski. PS DT–Mary Spinelli.

VACATIONLAND FSC: PRE–Michael Brusseau, Tonya Rubbelke.

VALLCO SC: PRE–Shannon Hoyt. 2–Alethea McConkey. PF–Shannon Hoyt. BR DT–Deirdre McMahon, Ross McMahon.

VALLEY FSC: PRE–William Yang. PF–William Yang.

SC OF VAN NUYS: PRE–Casey Siegler, Mari Torossian, Monique Moizel. 2–Trina Meister. PF–Casey Siegler, Monique Moizel. JF–Karen Lynch, Trina Meister.

VERMONT SC AT ESSEX: 1–Margaret Geiss.

WAGON WHEEL FSC: PRE–Emily Scheiderer, Janiese Potempa. 1–Christy Datin, Jill Steadman, Kopal Jain, Rie Takagi, Robyn Payne. 3–Jennifer MacKay, Jennifer Stoll. 4–Barbara Dolenga. PF–Emily Scheiderer, Janiese Potempa. IF–Erika Fischer, Lenore Zibits, Lynne Nicolas, Melissa Phelps.

WARWICK FIGURE SKATERS: PRE–Lynn Ridgewell, Marie McOsker, Susan Ortel. 1–Erin Improta, Helen Harrison, Nicole Oneppo, Stacy Simons. 2–Lisa Harrison, Sarah Walsh. 3–Lisa Mcaulay. PF–Cheryl Campion, Elizabeth Aron, Erin Improta, Marie McOsker, Stacey Thurston. JF–Keri Grantmaier, Laura Pavia, Lyndsey Read. PG DT–Lisa Harrison.

WASHINGTON FSC: PRE–Alexandra Adams, Danielle Warner, Derrick Delmore, Kelly Newton, Sarah Kermond, Tiffany Martin. 2–Adrienne Klein, Elizabeth Windchy. 3–Tatiana Pollard. 4–Karen Tung, Najja Bracey. 5–Tiffany Purcell. PF–Alexandra Adams, Danielle Warner, Derrick Delmore, Kelly Newton, Natasha Miller, Sarah Kermond, Tiffany Martin. IF–Stephen Bidon. NF–Karen Tung. P DT–Stephen Bidon, Tatiana Pollard. BR DT–Amanda Carpenter, Amy Schneider, Eileen McShane. PS DT–Heather Hughes, Najja Bracey.

FSC OF WATERTOWN: 1–Deanna Driggers. IF–Stephanie Sherman. P DT–Jennifer Moseley, Russell Driggers, Sarah Metevia. BR DT–Janice Adderley. PS DT–Tisha Saiff.

WATERTOWN SC: PRE–Jaime Benoit.

WEST COVINA FSC: 2–Tylana Enomoto. JF–Tylana Enomoto. P DT–Linda Smith.

WEST SHORE FSC: PRE–Laura Sima.

SC OF WESTCHESTER: PRE–Catherine Lyons, Ian Koebner. 2–Amanda Fialk, Kathleen Klatte. 6–Nicole Tavano. PF–Carolina Fugaro, Catherine Lyons, Christian Cavalluzzi, Christie Maria, Donna Biondi, Mara Youngblood, Maritza Fugaro, Michele Fridson, Nicole Azarenek, Vanessa Heller. JF–Amanda Fialk, Michele Fridson. JRF–Nicole Tavano.

WHEELING FSC: BR DT–Emily Seung.

SC OF WILMINGTON: PRE–Missy Dixon, Monique Rollins, Richard Collis, Sylvia Eccel. 4–Pamela Kurtz. 5–Julia Piano, Nicole Carpitella, Rony Glenn. PF–Chauncey Pierce, Kimberly Erdner, Richard Collis. JF–Grace Wu. NF–Nicole Carpitella, Pamela Kurtz, Rony Glenn. PPR–Pamela Kurtz. PS ADT–Lynn Ryan.

WILMINGTON FSC: PRE–Andrea Gravell. PF–Andrea Gravell.

WINCHESTER FSC: PRE–Mavra Winson. 1–Jennifer Wood, Kelly McEleney, Wendy McCartney. PF–Stephanie Chiuve.

WINDY HILL FSC: PRE–Edwin Visser. 1–Karen Morris. PF–Edwin Visser, Karen Morris, Melissa Amirarjomand. JF–Melissa Staffeldt.

WINTER CLUB: 6–Courtney Hurley.

WINTER CLUB OF INDIANAPOLIS: SFD–Robert Ferendo.

WINTERHURST FSC: PRE–Anne Sweeney, Danielle Radloff, Jessica Henderson, Kristin Marvin, Susan Reyes. 1–Reagan Kendrick. 2–Dan Kuhn. 3–Candace Dumont, Ingrid Norman, Janine Salloum. 5–Holly Russel, Kristen Frazzini. 7–Lisa Boukis. PF–Anne Sweeney, Felicia Beverley. IF–Becky Phillips, Ingrid Norman, Sarah Hitesman. NF–Holly Russel. JRF–Dave Tonidandel, Marni Halasa, Scott Tonidandel. BR DT–Michael Keller.

WISCONSIN FSC: PRE–Kari Huse, Shannon Morris. 2–Amy Behrendt. 3–Frida Slavich. 4–Tina Denman. 5–Emily Dulde. PF–Kari Huse, Lisa Yun, Shannon Morris. JF–Mary Spencer, Natalie Dorman. NF–Tina Denman. P DT–Carrie Schuneman, Christine Duffy, Rebecca Behrendt. BR DT–Shannon Hargraves.

WISSAHICKON SC: 3–Laura Brennan. IF–Anita Zalewski, Helen Betancourt, John Chambers, Lisa Sklar. JRF–Doreen Raudenbush. BR DT–Meg Sagi, Reilly Dempsey. PPR–Shana Nicole. BPR–Karen Payonk.

SC OF WORCESTER: 2–Tara Tufts. JF–Tara Tufts. NF–Anne Williams, Lisa Delia.

WYANDOTTE FSC: PRE–Jodi Woodward. JF–Jodi Woodward. BR DT–Chantelle Andrus.

WYOMING VALLEY ISC: 2–Charlotte Lafer.

YARMOUTH ICE CLUB: 4–Tanya Ann Fontneau. IF–Lisa Risso. NF–Tanya Ann Fontneau.

INDIVIDUAL MEMBERS: PRE–Amaura Hafer, Brenda Cordoza, Jennifer Fallon, Karla Jean Hoehne, Kelly Ann Trent, Maurice Danielson M.D., Rosemarie Busseri, Tatiana Benet, Tricia Kington. 1–Amanda Beitmann, Edith Replogle, Kristen Erickson, Pamela Sue Freudig. 2–Carol Eve Davis, Emily Sterner, Mercedes Bransfield. PF–Amaura Hafer, Amelia White, Brenda Cordoza, Cecelia White, Christine Wechsler, Deborah Matsumoto, Jennifer Fallon, Karla Jean Hoehne, Kelly Ann Trent, Kristin Niewinski, Laura Fravel, Melody Tash, Rosemarie Busseri, Tiziana Antenucci, Tricia Kington. NF–Kim Priest. P DT–Ann Juergens-Behr, Derek Trent, Francesca Gaimo, Melissa Miele, Tatiana Benet, Tricia Kington. BR DT–Amanda Beitmann. PS DT–Sandra Brust. B ADT–Mary Ann Visco.

PROFESSIONALS: PRE–Megan Jennings. 6–Allison King, Kim Moyle. PF–James Lewis. IF–Camille Arioli. NF–Camille Arioli. JRF–Nicole Laurin. PS DT–Dawn Dahlman. SFD–Janene Meyer. PG DT–Leslie Zimmer. PPR–James Lewis, Marilyn Anderson, Stephanie Turnbull. BPR–Stephanie Turnbull. PS ADT–Charlotte Mitchell.

NutraSweet

Continued from page 21

Her days were busy with appearances in four clinics at the Creve Coeur Ice Arena, Brentwood Ice Arena, South County Ice Arena, and North County Ice Arena. At each clinic, Tracey assisted in instruction and skated exhibitions.

San Francisco

The dynamic pair skaters, Katy Keeley and Joseph Mero toured the San Francisco Bay area October 21 and 22, receiving considerable press coverage, including a special interview in the weekend edition of *The San Francisco Herald-Examiner*. The pair appeared at the Golden Gate Ice Arena and the Belmont Rink promoting the month's activities and dazzling spectators with their finely honed skills.

As a result of the media tours, and the supportive efforts of the USFSA, the PSGA, the ISIA, The NutraSweet Company, and the skaters, news of The NutraSweet National Ice Skating Month reached from coast to coast, urging all to lace up for fitness and fun.

Precision Review

Continued from page 39

sudden volume changes from one section to another. It is not uncommon for a team to falter because they cannot hear the music. On the other hand, sometimes the music after a cut comes blasting out so loudly that it jolts the judges and the audience.

It would be wise to have the final tape done in a professional studio using the best tape and equipment available.

All major precision competitions use variable speed tape decks so as soon as a team arrives at a competition they should check the timing of their tape on the equipment that is going to be used. This will

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allow the music person to set the machine at the correct speed for that particular tape. It might be expedient to have one person in the club responsible for seeing that this is done. That person might also want to stay close to the music person during the performance in order to advise him of the level at which the music should be played should a problem arise.

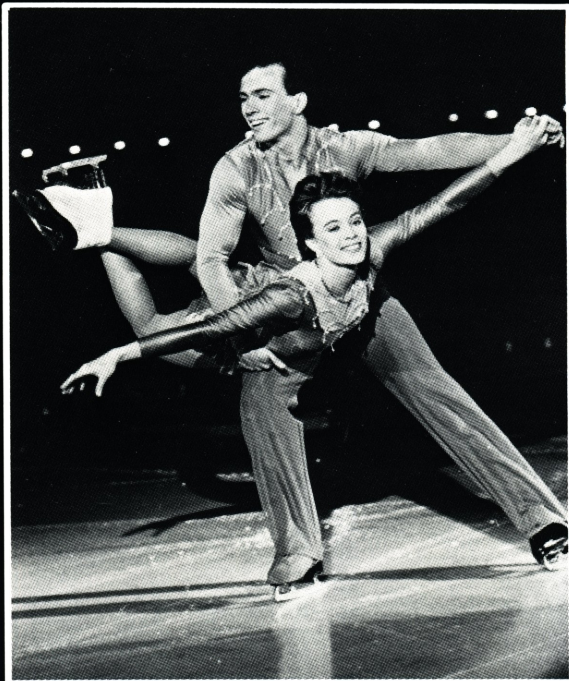
All of this information will hopefully help you present your team in an artistic program. Just remember—the best teams always have the best music.

BEREAVEMENTS

Margaret E. "Peg" Garren, 88, of Troy, New York, died September 19, 1988. Peg was a National Judge and Silver Dance Judge and was made an Honorary Judge for the USFSA upon her retirement in 1978. She will be sadly missed by her many friends.

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