

TGSA Competition Director Duties

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OVERVIEW

The position of TGSA Competition Director (CD) is one of the most time consuming jobs in the organization. The Board of Directors (BD) assigns a fee for the value of the work performed. The work of the CD is most noticed by the membership during the competition events. The Competition Director handles the way the contest is scheduled, which format is used, where and when it is held, how the entries are organized into heats, how the surfers who advance are placed into successive heats, how the contest is made fair and balanced for everyone who enters. He has specific guidelines which have no interpretation. The events should run exactly as outlined in this manual.

COMPETITION PROCEDURES

JOB RESPONSIBILITIES**TGSA Competition Director Duties**

- To prepare contest schedules for acceptance by the BD at winter or spring meetings
- To attend all TGSA BOD meetings
- To coordinate all entry forms (electronic or otherwise) with District Director (DD) for accuracy and completeness
- To receive complete list of competitors for every event
- To maintain complete ranking by division of all competitors for every event
- To prepare and post all order of events for each event on websites and at the beach
- To seed and slot all 1st round competitors in each event according to type of format used
- To maintain the beach marshal area and competitor's jersey pick up and return area
- To control the flag operators and timers
- To communicate heat progress, changes in schedules and postponement or delays to head judge (HJ), DD and announcer
- To communicate to competitors about all competition matters, heats
- To enforce all sportsmanship codes and assign penalties
- To arbitrate all protests with assistance of HJ
- To establish and maintain clearly marked surf zones for competitors and beach ready area
- To communicate to competitors instructions, rules interpretation and answer rules questions for competitors.
- To communicate with DD space available for alternates and beach entries
- To make jersey assignments for alternates and beach entries
- To rewrite heats as necessary
- To condense heats as allowed
- To preside over awards with other TGSA officers; President, Vice President, District Director, Treasurer, Secretary
- To coordinate with District Director all schedules, beach permits and postponement policies

The CD is in charge of all final decisions during competitions. He is the ultimate decision maker in charge of schedules, protests, tally procedures, heat advancements, delays or postponements, competition jerseys, timers, flag operators, beach marshalling, team events.

RESPONSIBILITIES AT BOARD OF DIRECTORS MEETINGS

1. Prepare and present contest schedules for next season

The competition director should take into consideration many factors which will help determine the timing of competition dates. They are but not limited to:

Day light provisions/restrictions:

Knowing the number of daylight hours available may limit the type of events scheduled. For example, December 21st is the shortest day of the year and it may not be possible to accomplish over 65 heats for that day.

Holiday policy:

The Board of Directors may desire to block out specific holidays where no contest is scheduled. Care should be taken in preparing contest schedules that cause events during these black out dates or where a postponement window is always required, the next available postponement date may be after the blackout schedule

Postponement policy:

The competition director must be careful to not schedule an event where the window of opportunity for postponement is conflicting with other events of the TGSA or where the beach venue is in use by another organization.

Venues:

Selection of contest venues should be based on the best available chance for surf at the venue. Some consideration should be given to competitor's needs, such as beach access, travel and overnight accommodations.

Sponsorship obligations/privileges

Supporters of the TGSA who secure a title sponsorship should be made aware of TGSA scheduling and postponement policies to avoid conflict. When a title sponsor has scheduled other promotions for their business during a TGSA event, they should make the TGSA aware of them. The TGSA should communicate with the Competition Director about any affiliated event that may conflict with scheduling, permitting or beach access and use.

Present Schedules of contests in Texas by outside agencies or organizations

Knowledge of when other contests are being held EG: Volcom Bushfish will assist in developing a schedule that does not directly coincide with or conflict with these other events. Should TGSA members qualify for contests outside the region, the schedule of these events must be known so we do not schedule an event at the same time. This includes, but is not limited to: the US Surfing Championships, The Volcom Bushfish Series, and factory sponsored grom events, or surfing camps.

2. Prepare, Coordinate and Review contest Entry forms

The Competition Director is ultimately responsible for the accuracy of all forms. Entry deadlines and due dates should consider post office holiday policies. A cancellation policy should be clearly stated on all contest entry forms. If entries will be re-opened after a postponement, that policy will be stated in writing. Late fees should be in writing on all contest entry forms. The TGSA policy for handling alternates and beach entries should be posted on the TGSA website and at the beach competition tent.

3. Present proposed competition format for every event.**4. Present seeding format for every event****5. Propose qualification requirements for entry into State Championships.**

By establishing minimum points or by rankings or by division based on slots available

6. Prepare and propose revisions or adoption of Sportsmanship codes, penalties for rules violations and other rule revisions.**SCHEDULES****Coordinate and review schedules with other organizations**

The competition Director is responsible for communication to and with umbrella organizations the TGSA belongs to, such as NGB (Surfing America) for acquiring competition schedules TGSA members may qualify for. The Competition Director needs to know any and all conflicts with other surfing events that the membership may participate in. In the event of Pro-am schedules it would be helpful to know dates for other events the traveling Professionals may attend and schedule our Texas event at a time most likely to attract those competitors.

Contest schedules should be posted at the TGSA website and at every sponsor location. It is recommended that a poster be created and disbursed to every possible location.

COMMUNICATIONS TO COMPETITORS

The following things must be communicated to all competitors before any event:

- Late fees must be collected before any late or beach entry is placed on the alternate list
- Heat assignments for first round
- Order of events

The following things must be communicated to all competitors during every event:

- Order of events
- Heat results
- Heat advancements
- Changes in order of events

The following things must be communicated to all competitors once a season.

- Notice to Competitors of late entry/ beach entry alternate policy in effect
- Qualifications for entry into State Championships
- Contest schedule for season
- Contest schedule for NGB or International events
- Contest schedules for other TGSA sanctioned events, e.g. Volcom Bushfish

The competition director should have a page on the website and ability to post information. It is recommended that he have a link to e-mail for competitors to ask questions.

CONTEST ENTRIES

The Board of Directors may assign the responsibility of receiving and organizing contest entries to the Competition Director, the Treasurer, the Secretary or to any outside person or agency. The job of receiving and transmitting entries has a separate fee associated with it. The Board of Directors will set the fees and assign responsibility prior to the next general election so prospective candidates may know their job responsibility.

RANKINGS

Age groups as defined on TGSA schedules must have accurate rankings, including any ties. Rankings are primarily used to establish heat assignment at TGSA events.

Rankings can be used to determine any or all of the following:

- Qualification into TGSA State Championships
- Priority for late entries becoming alternates
- Priority for beach entries becoming alternates
- Invitation to Pro-Ams
- Invitations to National events
- Qualification for All Star Team.

CONTEST FORMATS

The TGSA has several options in determining contest formats.

1. Conform to the latest system in use by the NGB
2. Conform to the latest system in use by the ASP

The TGSA has the ability to offer different formats in the same season. Point rated contests should use the same system throughout the season. Pro-Am events whose results do not factor into eligibility of State Championships or National qualifiers may use any format the Board of Directors approve.

Contest formats include, but are not limited to:

1. 4 person heats with 50% advancement
2. 4 person heats with 50% advancement divided into age and/ or gender
3. 4 person heats with 50% advancement divided into age and/ or gender and/ or equipment
4. 3 person heats with 1st receiving a bye to 3rd round and the rest surfing a man on man single elimination
5. Pro-Am events where professionals and top amateurs receive bye into later rounds and non ranked or low ranked surfers compete in trials for the main event
6. National Surf League format for team events
7. 1A, 3A, 4A formats where novices surf up into higher level of difficulty during the contest and top ranked surfers are seeded into more difficult divisions.

The contest format included in this appendix is for age group surfing, broken into long board and shortboard divisions, separated by gender, where there is a 50% advancement mandatory for every heat.

In formats that separate competitors by age, gender or equipment, it may be necessary to have the identical limits on each criteria as the NGB. This allows easy tabulation of qualifiers for entry and ranking into their events.

Any proposed format brought to the Board of Directors for consideration must have:

1. Clearly defined heat advancement schedule and examples of heat sheets
2. Equipment limitations and restrictions clearly stated
3. Age group or gender descriptions clearly stated
4. Heat assignment and seeding criteria examples
5. Sample of entry form
6. Complete format information put into this document in the form of an appendix section.

HEAT ASSIGNMENT AND SEEDING CRITERIA

In order to anticipate the fairest outcome when we slot the athletes into a heat, we must assume that all judging and tallying is of the perfect variety. Otherwise the opinion of the seeding does not matter. We can randomly assign competitors into heats. Therefore: Any method shown assumes that the higher ranked surfer is going to surf better than any lower seed in all heats

Seeding guidelines are attached as an appendix to this section. In the basic preparation of all contests you will consider the ranking of competitors first and then the appropriate heat assignments. The things to consider are:

1. Breaking of ties between competitors who have the exact same ranking.
 - a. Ties may be broken by district priority. Example: If the first contest of the year is a district event, there will be duplicate seeds for every ranked competitor. Two number one, two number two. One from each district. In this situation it will be necessary to assign 1a, and 1b seeding based on district priority. The host district for the contest will have priority for top seed between the ties. If the number of competitors in a division creates a heat where the second seed in any heat is from the same district as the first seed in any heat, then the seeding should alternate for each successive seed, until the heat assignment is balanced equally between each district.
3. The number of entries in a division determines the number of heats required to run the event. See attached schedule in appendix for flow chart of different contest formats. See – **TRIALS HEATS** for more information about adding heats and rewriting the division verses adding only a trials heat.
 - a. See **APPENDIX 1** page -16
4. The heat assignment method must be pre-determined. There are two basic methods of assigning ranked competitors into any heat. Method A will be referred to as LINEAR. Method B will be referred to as ZIG ZAG.
 - a. **Linear progression** is a repeat of the same progression for every heat in a round. Here is the example for a heat of 32 competitors.

1	9	17	25
2	10	18	26
3	11	19	27
4	12	20	28
5	13	21	29
6	14	22	30
7	15	23	31
8	16	24	32

- b. **Zig Zag progression** is the reversal of the progression for every heat in a round. Here is the example for a heat of 32 competitors.

1	16	17	32
2	15	18	31
3	14	19	30
4	13	20	29
5	12	21	28
6	11	22	27
7	10	23	26
8	9	24	25

- c. **ASP Method** The Association of Surfing Professional combines the benefits of both the Linear and the Zig Zag heat assignment method. It then splits the heats into brackets and reorganizes the heats so the top two seeds surf in separate brackets, yet in consecutive heats, in the middle of the round. **See APPENDIX C** (Courtesy of the ASP)

Here is an example of the ASP method

1	9	24	25
2	10	23	26
3	11	22	27
4	12	21	28
5	13	20	29
6	14	19	30
7	15	18	31
8	16	17	32

Neither method can be considered to be fairer than the other yet each has their own unique characteristics and advancement characteristics.

Linear: each competitor in a heat is ranked equidistant from every other seed in the same heat.

Zig Zag: Each heat has same numerical value when added together. The third seed is the same distance from the 1st seed in every heat. The fourth seed is the same distance from the 2nd seed in every heat.

LATE FEES

Late fees are due and payable immediately for any surfer who had not entered on time and wishes to compete in the contest. Payment of late fee does not guarantee any slot, but gives the surfer the right to compete for any slot available. All alternates have paid a late fee.

The TGSA Board of directors should establish at their winter/ summer (specify) meeting the contest schedule and the late fee penalty policy.

EXAMPLE OF POLICY STATEMENT:

All entry blanks (mail or internet) shall state:

Late entries will be charged an additional \$10 at check in. Late entries and beach entries will be combined to determine the alternate slots and priority and seeding into the contest. Beach entries will be charged an additional \$15 at time of check in. Paying the late entry fees and becoming an alternate will not guarantee a slot into the contest, although every attempt will be made to slot you into your division.

SLOTING OF ALTERNATES AND BEACH ENTRIES

Beach entries and alternates may be added into heats when space allows. Space is available under these conditions:

1. Empty slots due to heats that are not filled completely
2. Open slots due to competitors that entered on time but do not show up for their heats.

Beach entries and late entries are assessed a late fee. The late fee is payable to the District Director immediately upon expressing desire to compete. Everyone who pays the late fee is eligible for any open slot as may become available. The late fee does not guarantee a slot into the competition; it does give the Competition Director a pool of competitors to draw from when assigning available slots.

The Competition Director has several options when deciding who gets priority on available slots.

1. By current ranking of competitor
2. By last year's end of season ranking if tied in current season
3. By running a trial heat. This method is when there are more alternates in the pool than slots available and the addition of all alternates would create new heats to the first round, causing the Competition Director to rewrite heats.
4. By random draw from hat

In order not to hold up the first heat of the day, it is strongly recommended that the comp. Director clearly states the order of events in advance of the contest. He should call up the 1st division and verify all competitors are present and verify if any slots are available so as to not delay or deny competitors wanting in the contest and ensure full heats.

It is recommended that all beach entries and late entries be required to check in at desk before the first heat of the day is run. The District Director should add the number of potential alternates together. If there are more potential alternates than open slots on the heat sheets, the Director should call the entire division to the desk for a formal check in. After the number of actual competitors in a division is known, additional slots may be available. If the revised number of slots available is still less than the number of alternates, a trials heat may be held, or the entire division may be reshuffled and new

heats with correct seeding made. Trials heats may have up to five alternates competing for as few as one slot into the main event.

Beach entries and late entries must pay the late fee prior to being given alternate status. Once alternate status is achieved, no guarantee is made that they will have a slot available. Once a slot is available and the competitor is seeded into a heat, payment for the full amount of entry fee must be made. Late entries that pay the late fee, but are not seeded into the event, are eligible for refund of the entry fee received late.

A notice of this policy should be on the TGSA Website and entry blank. It should also tell all competitors that a divisional check in may be required 30 minutes prior to the start of the first round of their division.

The Competition Director must be absolutely sure an entry already seeded in the event is not present for the contest before giving his slot away. Seeded competitors have until the time their heat is due to paddle out to check in with the Competition Director. The first alternate should always wait at the jersey exchange/ ready area for instructions.

TRIALS HEATS

Trials heats may be run for any division, at any time during the event prior to the heat(s) with the available slots have not been run. It is recommended that Trials heats be run in one of two ways.

1. During a break in the order of events where only one heat is out during a double beach setup.
2. Replaces a heat that was cancelled due to a condensed order of events

If more alternates and beach entries exist than slots available after check in

If time is available

1 heat anytime in Round

Up to 5 man heats allowed for 2 + slots

4 man heats for 1 slot

2 or more slots are available but 6 or more alternates on the list = requires two

trials heats see following example

Example of when to run two trials heats rather than rewrite and reseed entire first round.

- * 15 entries are received on time
- * Competition Director makes 4 heats of 4 with one heat having an empty slot.
- * 6 competitors (late plus beach entries) pay the late fees and wish to enter.
- * Competition director considers adding another heat (5 heats of 4) this requires the addition of 4 more heats if the division is rewritten.
- * Competition director calls for check in of division.
- * Competition director verifies that only 14 competitors are present and he has two open slots.
- * Competition Director runs two heats of 3 people in trials. Winner of each heat gets one of the available slots.
- *** All heats are full
- *** All alternates got to surf
- **** Contest is two heats shorter than running 5 heats of 4

Trials heats should not be scheduled immediately prior to the heat that the surfer would advance into as this would cause a delay waiting for the tally to be done, and paddle out.

ADDING HEATS

Addition of heats to the contest is the last option of the Competition Director. Every attempt should be made to allow any surfer who wishes to compete to do so.

Adding Heats

1. Determine time available
2. Count 1st round and extra quarters (see attached chart)
3. If time available, accept late fees, beach entry fees

The Competition Director should add heats if:

1. There are five or more alternates than slots available after a general or divisional check in
2. If there is enough time to add the quantity of heats added as a result of rewriting the first round heats. Note: see appendix for heats required based on number of competitors. Sometimes adding a single heat in a division can cause up to five more heats in the contest. (A round of 16 requires 7 heats, a round of 20 requires 11 heats)

CONDENSING HEATS

Heats are condensed when fewer competitors show up than entered. It is recommended that a divisional check in be held 30 minutes prior to the first round of each division in order to discover the opportunity to condense heats, or the necessity to run a trials heat or add heats.

If only two people show up for a heat scheduled for three or more, the heat must be run in order to correctly seed the next round.

Occurs when necessary (more slots than alternates)

Reseed after division check in

Rewrite heats on beach to ensure proper heat assignment by seed.

JERSEY ASSIGNMENT

- * Competitors may not request jersey color for ANY reason.
- * Competitors should never have jersey assignment solely on their seeding or ranking in any heat.
- * A rotation of colors must occur for the preliminary heats.

- * A rotation of colors for second round should be similar and should try to avoid competitors repeating the same color as their prior round.
- * The colors used in every district should be the same to reduce differences on judges and tally sheets used.

See appendix for format and color rotation example.

PROTESTS

Filing Deadline, 30 minutes from end of heat under protest.

IF tally error... Comp Director and District Director review and resolve

IF interference... Comp Director and Head Judge resolve

IF Tie, surf off before next round begins- Comp Director

HEAT ADVANCEMENT

- * The TGSA uses the 50% advancement rule on 4 person heats.
- * Finals may consist of up to 5 competitors with only 4 trophies awarded
- * Advancement to the next round will be posted in advance on all heat sheets
- * Competitors may have to surf against one of the previous heat's competitors in the next round
- * For the purpose of assigning slots into higher rounds; all seeding and advancement assumes that all higher ranked surfers will advance over lower ranked surfers from previous heats.
- * Balanced advancement is the result of mixing the 1st and 2nd from prior heats in a logical and progressive pattern that is repeatable

Balance in heat assignment assures that no heat is "stacked". Stacked is a term best used for beauty contests. Balanced is a term best used for surf contests.

Achieving balance is necessary to ensure all competitors have an equal chance to advance. Balanced advancement assures the lowest seeded surfer is ranked the same distance from 1st place as he is to any other heat in the round.

INTERFERENCE RULE

THE TALLY PERSON MUST CHECK FOR INTERFERENCE BY A MAJORITY OF JUDGES BEFORE BEGINNING TALLY.

If the majority of judges call interference;

1. Judges must be sure to always post actual scores for all rides even if that judges calls an interference.
2. If an interference is called by the majority of judges.
 - a. Tally person will replace any scores on rides by a surfer with an interference, with a score of zero.
 - b. If A surfer has only two scoring waves in a heat and has an interference on one of them, the wave with the interference will be scored as a zero and the remaining wave score will be halved.
 - c. If a surfer has more than two waves in the heat, the second highest score will be reduced by half. If the second highest wave scored also happens to be the wave with an interference called, that score becomes a zero and the third highest (before penalty) will become his second highest, and that score will be halved.
3. Paddling interference by a competitor will result in the loss of one scoring wave. The competitor's second highest scoring ride will be counted in the final tally as a zero.

Tally procedure when interference is applied

1. If only 2 scoring rides by competitor with an interference (one is the interference)
 - 1/2 of remaining score + 0 (zero) = total
2. If 2 or more scoring waves by competitor with an interference

The interference becomes a score of zero

The tallier finds the next two highest scores on the judge's sheet.

-Low score will be reduced by 1/2

-High Score and 1/2 of low score = total

3. If competitor has more than one interference:

One wave ridden and scored = 0

Two waves ridden and scored = 0

Three waves ridden and scored = 1/2 top wave + zero

Four waves = 1/2 top + 1/2 second wave

A loss of one scoring ride applies for a paddling interference where the surfer does not catch the wave. If a surfer has less than the minimum number (2) of scoring waves (1) he will be scored on one less wave (0) No scores.

Paddling interference – ^ placed above scores between rides if no wave ridden.
Arrow to person who was interfered on. (Paddling for a wave or paddling out)

Riding interference - ^ placed around score for wave ridden. Arrow to person interfered on surfer who was interfered with gets additional wave count and is not penalized for one extra wave.

*ASP RULES STATE: If any surfer receives two or more interferences in one heat.....
Ejected from competition and if refuses to leave area – loss of points accumulated in contest (all events)*

*The TGSA should vote on whether this policy is in effect for the competition season.
If competitor receives 3 or more in one event, but no more than one in any heat, ejected from competition. Refusal; loss of points (all events) **See Responsibilities at Board of Director's Meetings, page 3***

PAYMENTS AND FEES FOR WORKED PERFORMED

The Board of Director will assess a fee schedule for:

- Heat preparation and format preparation for District events
- Heat preparation and format preparation for Open events
- Daily fee for work at the beach running any contest

RELATED BOARD OF DIRECTORS RESPONSIBILITIES

Treasurer or District Director or Competition Director to collect entries

Treasurer or District Director or Secretary to maintain membership roster and rankings

District Director to:

- Post schedules,
- Obtain permits
- Transport and maintain equipment
- Trophy and awards activities (order, delivery, disbursement)
- Maintain well organized officials tent
- Assist Tally
- Post results
- Maintain all paperwork for Head Judge, Competition Director and tally person

RESPONSIBILITIES AT NATIONAL AND INTERNATIONAL EVENTS

The Competition Director should request to attend all events that the TGSA All Star Team attends. He should also have direct communication with every other Competition Director from the different regions in the NGB umbrella, and with any other surfing organization that the membership belongs too, or may wish to participate in contests. These organizations includes but is not limited to:

The Hawaii Amateur Surfing Association	HASA
The Western Surfing Association	WSA
The Eastern Surfing Association	ESA
The National Scholastic Surfing Association	NSSA
The Kneeboard Surfing Association	KSA
The Christian Surfing Federation	CSF

The goal of the Competition Director in communicating with these groups is to discover the issues and best practices in use by other surfing organizations and to bring or share information that affect their competitors to the attention of TGSA so that we can better understanding of how to prepare our membership for competition in the future.

SANCTIONED EVENTS

There will be other organizations, or events not directly sponsored by the TGSA that occur in our region. The TGSA may offer a sanction for these events which allows TGSA members to participate. The Competition Director should be required by these groups to attend for the purpose of over site and to protect the interests of our competitors. The TGSA should assess a fee for sanctioning that covers the cost of the Competition Director's travel and daily fee so he can attend. The Competition Director should have access to official's area and have knowledge of the format, judging criteria and advancement procedures in use at these events. He will be an observer to protect the interest of our members who participate and report to the TGSA Board of Directors with any recommendations for future sanctions requested by these groups.

Appendix 1 Heat requirement schedule based on entries received

number of entries in division	first round heats needed	people in heat prelims	alt slots available	round 1 heats	round 2 heats	quarter finals	semi finals	finals	total heats	total minutes	time added for one entry
1 to 5	1	5	0	0				1	1	20	
6	2	3-3	2	0			2	1	3	50	
7	2	4-3	1	0			2	1	3	50	
8	2	4-4	0	0			2	1	3	50	
9	3	3-3-3	3	0		3	2	1	6	95	+ 45
10	3	4-3-3	2	0		3	2	1	6	95	
11	3	4-4-3	1	0		3	2	1	6	95	
12	3	4-4-4	0	0		3	2	1	6	95	
13	4	4-3-3-3	3	0		4	2	1	7	110	
14	4	4-4-3-3	2	0		4	2	1	7	110	
15	4	4-4-4-3	1	0		4	2	1	7	110	
16	4	4-4-4-4	0	0		4	2	1	7	110	
17	5	4-4-3-3-3	3	5		3	2	1	11	170	+ 60
18	5	4-4-4-3-3	2	5		3	2	1	11	170	
19	5	4-4-4-4-3	1	5		3	2	1	11	170	
20	5	4-4-4-4-4	0	5		3	2	1	11	170	
21	6	4-4-4-3-3-3	3	6		3	2	1	12	185	
22	6	4-4-4-4-3-3	2	6		3	2	1	12	185	
23	6	4-4-4-4-4-3	1	6		3	2	1	12	185	
24	6	4-4-4-4-4-4	0	6		3	2	1	12	185	
25	7	4-4-4-4-3-3-3	3	7		4	2	1	14	215	+ 30
26	7	4-4-4-4-4-3-3	2	7		4	2	1	14	215	
27	7	4-4-4-4-4-4-3	1	7		4	2	1	14	215	
28	7	4-4-4-4-4-4-4	0	7		4	2	1	14	215	
29	8	4-4-4-4-4-3-3-3	3	8		4	2	1	15	230	
30	8	4-4-4-4-4-4-3-3	2	8		4	2	1	15	230	
31	8	4-4-4-4-4-4-4-3	1	8		4	2	1	15	230	
32	8	4-4-4-4-4-4-4-4	0	8		4	2	1	15	230	
33	9	4-4-4-4-4-4-3-3-3	3	9	5	3	2	1	20	305	+ 45
34	9	4-4-4-4-4-4-4-3-3	2	9	5	3	2	1	20	305	
35	9	4-4-4-4-4-4-4-4-3	1	9	5	3	2	1	20	305	
36	9	4-4-4-4-4-4-4-4-4	0	9	5	3	2	1	20	305	
37	10	4-4-4-4-4-4-4-3-3-3	3	10	5	3	2	1	21	320	
38	10	4-4-4-4-4-4-4-4-3-3	2	10	5	3	2	1	21	320	
39	10	4-4-4-4-4-4-4-4-4-3	1	10	5	3	2	1	21	320	
40	10	4-4-4-4-4-4-4-4-4-4	0	10	5	3	2	1	21	320	
41	11	4-4-4-4-4-4-4-4-3-3-3	3	11	6	3	2	1	23	350	+ 30
42	11	4-4-4-4-4-4-4-4-4-3-3	2	11	6	3	2	1	23	350	
43	11	4-4-4-4-4-4-4-4-4-4-3	1	11	6	3	2	1	23	350	
44	11	4-4-4-4-4-4-4-4-4-4-4	0	11	6	3	2	1	23	350	
45	12	4-4-4-4-4-4-4-4-4-3-3-3	3	12	6	3	2	1	24	365	
46	12	4-4-4-4-4-4-4-4-4-4-3-3	2	12	6	3	2	1	24	365	
47	12	4-4-4-4-4-4-4-4-4-4-4-3	1	12	6	3	2	1	24	365	
48	12	4-4-4-4-4-4-4-4-4-4-4-4	0	12	6	3	2	1	24	365	

Please note that there is only a maximum of three (3) alternates under any circumstance

Highlighted lines show the dramatic jump in time and number of heats required by addition of only one contestant in round

APPENDIX A

Linear Slotting Method 45-48 competitors see CD file for entire system 1-48

PEOPLE ENTERED					
45-48	Heat numbers				
	1	1	13	25	37
ROUND	2	2	14	26	38
OF 20-48	3	3	15	27	39
	4	4	16	28	40
PRELIM	5	5	17	29	41
	6	6	18	30	42
	7	7	19	31	43
	8	8	20	32	44
	9	9	21	33	45
	10	10	22	34	46
	11	11	23	35	47
	12	12	24	36	48
ROUND	13	1	7	13	19
OF 17-24	14	2	8	14	20
	15	3	9	15	21
ROUND 2	16	4	10	16	22
	17	5	11	17	23
	18	6	12	18	24
QTR.F	19	1	4	7	10
	20	2	5	8	11
	21	3	6	9	12
SEMI	22	1	3	5	
FINAL	23	2	4	6	
FINAL	24	1	2	3	4

CD File has all examples from 5-48 contestants in standard format (shown above) Bracket Format, where the even seeds surf against the odd seeds, And has heat advancement schedule

APPENDIX B

Zig Zag Slotting Method 45-48 competitors see CD file for entire system 1-48

PEOPLE ENTERED		45-48				
	Heat numbers					
	1		1	24	25	48
ROUND	2		2	23	26	47
OF 20-48	3		3	22	27	46
	4		4	21	28	45
PRELIM	5		5	20	29	44
	6		6	19	30	43
	7		7	18	31	42
	8		8	17	32	41
	9		9	16	33	40
	10		10	15	34	39
	11		11	14	35	38
	12		12	13	36	37
ROUND	13		1	12	13	24
OF 17-24	14		2	11	14	23
	15		3	10	15	22
ROUND 2	16		4	9	16	21
	17		5	8	17	20
	18		6	7	18	19
QTR.F	19		1	6	7	12
	20		2	5	8	11
	21		3	4	9	10
SEMI	22		1	4	5	
FINAL	23		2	3	6	
FINAL	24		1	2	3	4
# HEATS			24			
EFFNCY			50%			

CD File has all examples from 5-48 contestants in standard format (shown above)
 Bracket Format, where the even seeds surf against the odd seeds,
 And has heat advancement schedule

APPENDIX C

ASP METHOD OF SLOTTING see CD file for entire system 1-48

PEOPLE ENTERED 45-48	Heat numbers				
	1	1	13	36	37
ROUND	2	2	14	35	38
OF 20-48	3	3	15	34	39
	4	4	16	33	40
PRELIM	5	5	17	32	41
	6	6	18	31	42
	7	7	19	30	43
	8	8	20	29	44
	9	9	21	28	45
	10	10	22	27	46
	11	11	23	26	47
	12	12	24	25	48
ROUND	13	1	7	18	19
OF 17-24	14	2	8	17	20
	15	3	9	16	21
ROUND 2	16	4	10	15	22
	17	5	11	14	23
	18	6	12	13	24
QTR.F	19	1	4	9	10
	20	2	5	8	11
	21	3	6	7	12
SEMI	22	1	3	6	
FINAL	23	2	4	5	
FINAL	24	1	2	3	4

CD File has all examples from 5-48 contestants in standard format (shown above)
 Bracket Format, where the even seeds surf against the odd seeds,
 And has heat advancement schedule