



## 2003 General Assembly Meeting!

May 28 to 31st  
Detroit, MI

*"Promoting lifting equipment safety through quality training, consulting and inspections."*

Spring 2003

## National Assembly Prepared to Motor into Detroit

ACRP members and guests prepare to "rev" up their engines as the 2003 National Assembly draws near. The Assembly is being held in Detroit, Michigan, May 28th-31st. The site is the only 3 Star/ Four Diamond Hotel in Detroit - the lovely all suite Antheneum. Located in the heart of Greektown, the entertainment district and adjacent to the Greektown Casino, the Antheneum is in walking distance to many restaurants and nightclubs.

The program officially begins on Wednesday, May 28th with a golf tournament and welcome reception. These events will offer an opportunity to network, renew old friendships and make some new ones

Thursday morning starts the educational sessions beginning with plant tours. The tours of the Mazda/Ford Auto Alliance Plant and the Commercial Group will prove to be every bit as informative as those held in the past. The tours are a large part of Thursday, May 29th's program and will require good walking shoes. One of the things that sets ACRP apart from other groups in the industry is the on-site tours and learning opportunities.

Save a little brain capacity for Thursday afternoon, however, when Mike Parnell, President of Industrial Training International, Inc. will hold an intense workshop on Advanced Rigging. Attendees will then enjoy a free evening to explore the area.

Friday's exciting workshops will begin with Mike Gelskey with Lift-It® Manufacturing Company, Inc. Mike's program is on the construction

of synthetic slings. Dale Edmonds of Rud-Chain, Inc. follows Mike with a dynamic program on Hardware Fittings Applications. Brian Overly of Crane Equipment and Services is next on the agenda with his workshop on the latest inspection and testing requirements for bridge type cranes.

Quite a lot of information in a short period of time and along with that will come the newest methods for training.

Definitely, the 2003 National Assembly will experience educational, networking and social opportunities that will enlighten the mind and spirit.



## Join with us in Detroit

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**Detroit • ACRP  
May 28-31, 2003**

## *The President's Corner*

**Ron Overton, President**



For the past ten months, we have all been wondering how we were ever going to top the list of outstanding speakers, informative tours and training seminars, which were the highlights last year at our National Assembly. The proverbial "bar" was set unbelievably high in San Diego, and it would take a major effort to develop a program that could surpass that high level of speakers, tours and training that our membership has now come to expect.

Thanks to some exceptionally hard work by quite a few of our members and the entire planning committee, I am pleased to announce that we have done it!

The targeted focus for this National Assembly is Industrial Hoisting and Lifting. What better place than Detroit, the hub of the Automobile Industry, to see the actual rigging and lifting applications in use and to learn from training programs and seminars provided by leaders in this facet of the industry.

This Assembly has it all:

- A program aimed at the latest inspection and testing requirements for industrial bridge type cranes, including information on the new standards that may be just around the corner.
- A training program and seminar presenting needed information to our membership about synthetic slings, including uses, efficiencies, fabrication, and inspection/rejection.
- An informative seminar and update on unique and new lifting attachments and how they may solve our members hoisting and lifting problems.
- An advanced rigging application workshop for our members' provided by one of the leaders in the field of rigging and training for riggers.
- A guided tour of the Mazda manufacturing facility, focusing on the hoisting and rigging applications. Here we will see how robotics, an assembly line type process, and hoisting and rigging are utilized in harmony.

- An onsite educational workshop at a local sling manufacturer focusing on sling inspection criteria and viewing how this criteria affects sling capacities by witnessing actual sling destructive testing and their subsequent results.

The ACRP is dedicated to continually update and provide the additional industry training for our members that make us the leaders in the hoisting and rigging industry. **REQUIRED TRAINING, WANTED TRAINING, NEEDED TRAINING!**

The 2003 Annual Assembly will be very fast paced, a full plate, exceptionally useful and informative for our members and one you will not want to miss!

I know we all have had the date marked on our calendars for a year now, but please take time out of your busy schedule to register for the 2003 Annual Assembly today! We need your continued support!

Take care, work safely and we will see you in Detroit!

### **GET OUT THE VOTE!**

The time approaches for casting your vote for a slate of Executive Officers and filling open Board positions for the coming term.

Please watch your faxes and/or the web site for your ballot. These should be faxed by May 12th and available on the web site on that date also.

The candidates are as follows:

#### **Executive Officer Slate**

Ron Overton - President  
Wayne Koepke - Vice President  
Jerry Klinke - Secretary/Treasurer

#### **Board Candidates**

##### **Professional**

Devon Beasley  
Jerry Klinke

##### **Associate**

Rick Knoche  
Mike Riggs

##### **Corporate**

James Cahill  
Jim Krull  
Paul Kuber

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# Suzanne's Sights'n Insights



Well, the time is growing short to get that registration form filled out and into ACRP headquarters! It's especially time to get those rooms booked at the hotel... they extended the deadline to May 9th, and of course the all important airline ticket.

Excitement is running high, especially about our much sought after plant tour. Major kudo's to Danny Bishop and Ship Ohman for their bulldogging or sweet talking, or a combination of both. Whatever they did, it worked, and we're appreciative! It's gonna be great.

Despite or perhaps because of the economy, it seems that our members are working harder than ever. Regardless of their best efforts, we are missing some committee reports that didn't make the print deadline. Sorry guys.

You will find a good synopsis of this year's Assembly on the opposite page, however, contributed by our President, Ron Overton. For those of you who have attended a national meeting, you know that even his excitement and enthusiasm doesn't hold a candle to the real meeting. We always brag that our members bring more enthusiasm and information when they meet than we could ever anticipate. So much knowledge and so little time to share it!

Of course, I know you're looking forward to our suite hotel, the Atheneum. We hope that you will find it to your liking. And, did I mention all the things to do and see? The Detroit Lions are playing May 26, 27, 28, 30 and 31st if you can find the time to catch a game.

There are vans to be had to tour the Henry Ford Museum, the Motown Museum, former home of Barry Gordy, or perhaps visit the Cultural District. There you will find the Institute of the Arts, the Detroit Science Center currently featuring the artifacts from the Titanic, the History Museum - which is a hands on museum, the Planetarium and I-Max theatre. The Cultural District is perhaps a 5 -10 minute cab drive from the hotel.

Don't miss Edsel and Eleanor Ford's home in Gross Pointe. The interior look's like they just went out for the day and will return soon — a breath-taking view of the era. Also, in case you don't know, there is more wealth in Gross Pointe than possibly any single area in the U. S. Oh, did I mention the casinos? Detroit has 3 land-based casinos like Vegas and we are next door to the Greektown Casino!

Don't miss the Chairman of the Board's article on page 4. Mike Parnell brings you up to "snuff" on what's happening in the regulations and standards world. Also, Jerry Klinke, Membership Chairman, dishes out lots "food for thought" regarding the care and feeding of your mind on page 5. It's easy to ignore or not remember the common sense lessons we have learned through out our lives.

For those of you who are golfers or who just like to wield the little stick, don't miss the annual ACRP National Assembly Golf Tournament! The stories following this event always make for some good war stories at the opening reception.

If you've ever questioned what involvement you can/ should have in ACRP, then the Membership Service Guidelines on page 11 will set you straight or at least give you a plethora of information. And of course, it just wouldn't be a complete issue without Skip Ohman's Quiz. Turn to page 9 and see how you do.

That about wraps it up for this issue. Hope to see each and every one of you in Detroit. Bring your piggy bank!

**Masterlink** is published by the Association of Crane & Rigging Professionals (ACRP), with offices at 16420 S.E. McGillivray, Suite 103-133, Vancouver, WA. 98683-3461, or P.O. Box 87907, Vancouver, WA. 98687-7907. Phone: 800/690-3921. FAX: 360/834-3507. E-mail: [info@acrp.net](mailto:info@acrp.net). Editor: Suzanne M. Stilwill, CTC, Executive Director. The opinions expressed in **Masterlink** are those of the individuals involved and do not necessarily represent the official position of the association. *Contributed articles are welcomed.* However, ACRP assumes no liability or responsibility for the return of unsolicited materials.

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# REGULATIONS & STANDARDS COMMITTEE

*From the Desk of Mike Parnell*



We have heard some good news about synthetic web slings. The Web Sling & Tie Down Association has accepted our letter requesting information or guidelines about “quantitative sling damage”.

The letter asked that some guideline be established for web sling users, which identifies the amount of cutting, crushing, snags, tears or punctures that would truly cause the sling to lose strength. Currently the 29CFR1910.184(i)(9) reads; “Removal from service. Synthetic web slings shall be immediately removed from service if any of the following conditions are present; (i) Acid or caustic burns; (ii) Melting or charring of any part of the sling surface; (iii) Snags, punctures, tears or cuts; (iv) Broken or worn stitches; (v) Distortion of fittings.”

We are hoping that the WSTDA along with the AWRP (Associated Wire Rope Fabricators) Testing Committee will be providing some insights into this question. What has raised the issue is the rejection of web slings for even a single snagged fiber. By rights, that’s exactly what the OSHA regulations states, but it honestly doesn’t take away significant breaking strength. However, since the regulation says “snags” we are asking for these two associations for more defined criteria. If they can help arrive at a percentage of cross-section or other measurement, it will help give OSHA and web sling users a more practical approach for web sling removal. Should we achieve new guidelines in this area, we will likely see ASME B30.9 respond with their recommended removal criteria in the SLINGS volume.

Speaking of ASME, there will be new volumes available as printing is completed. A new publications release system is in place, which means that volumes will no longer be releasing annual Addendas, but they will be updated in their entirety every three years. We believe the next release for B30.9 SLINGS is late 2003, then its next issue will be 2006.

It sounds like one of the ACRP Board Members, Dave Ritchie of St. Paul Fire & Marine Insurance was selected to serve on the newly formed Negotiated Rules-making Committee for 29CFR1926.550 Cranes (construction). Congratulations Dave, we hope to hear a short report during the Detroit meeting about the committee’s activities.

We are expecting to see a move towards including “Training” as a section in upcoming ASME standards and volumes. It has already been included in the soon to be released B30.9 SLINGS and the B30.26 RIGGING HARDWARE volumes.

The work-in-progress ASME B30.26 RIGGING HARDWARE is still moving forward. Chapter 1 – Shackles has been largely approved by the MC (ASME B30 Main Committee) with some editorial changes yet to be added. Chapter 2 – Adjustable Hardware and Chapter 3 – Compression Hardware have recently been voted on by the MC and the subcommittee must respond to any negative ballots before the process can move forward. Responses to the MC should be made during the upcoming May and September meetings. Chapter 4 – Links, Rings and Swivels and Chapter 5 – Rigging Blocks should be ready for 1<sup>st</sup> ballot this summer and fall. Everyone is chomping at the bit to get this volume out for users to incorporate into their operations. Come to the May meeting in Detroit and find out about the results of the May ASME meeting with its updates.

Any concerns or “holes” in the OSHA regulations, ASME standards and Canadian standards can be discussed during the Regulations & Standards meeting on May 30<sup>th</sup> in Detroit. Send them in advance if possible, and we can research for better preparation. Email to: [mrmikeparnell@aol.com](mailto:mrmikeparnell@aol.com). See you in Detroit!



**Want to reap the benefits of joining a dedicated group of individuals and corporations intent on promoting lift equipment safety through quality training and information? Complete the membership application form on our website ([www.acrp.net](http://www.acrp.net)) or call ACRP at 1-800-690-3921**

# MEMBER SERVICES COMMITTEE REPORT

*From the Desk of Jerry Klinke*

**BRAIN FOOD:** Many people are aware that they need to eat healthy foods and exercise to help maintain their physical condition. But in today's fast paced environment we tend to forget about exercising our brain. Of course there are many ways to we can focus on building a better brain. You can go back to school and get an advanced degree. Or you could teach some classes at a local university – let me tell you, this will definitely exercise the little gray cells in your head! All of these have one thing in common - they help build self-confidence. In order to build self-confidence you must feed your brain. When you feed your brain the proper foods, your self-confidence will grow. In the same way you need to feed your body the proper foods to keep it strong and healthy... you must feed your head to keep it focused on your goals.

A question that you should ask yourself is: "What would happen if your customers knew more about cranes and rigging than you did?" The answer to this question is easy: you probably wouldn't have too many customers; and you may be on your way toward a new career flipping burgers or greeting people at the local Mega-Mart!

So, how can you "feed your mind" and build a positive attitude in a specialized field like ours? Well, some of the most effective ways would begin with:

- 1- Read as many books, and magazines that are related to cranes and rigging as you possibly can.
- 2- Enroll in some classes that are relative to your line of work.
- 3- Associate with other professionals who have a positive message to share, especially other professionals that are involved with cranes and rigging.

We've all heard that saying: "you are what you eat".. well, the same applies to the mind.... "you are what you continually think about". Everything you allow into your mind, positively or negatively, will affect your actions. You are "what you think" you are! People, can have the strongest affect on our lives. I believe that you become, to

some degree, the people you hang out with. The people you associate with and share ideas with have a major influence on you.

Haven't you ever been around a positively charged person who electrifies you and everyone around you? They say "confidence is contagious" well so is the lack of confidence. If you surround yourself with positive "can do" people, your mind will be getting the right "food" to keep it healthy.

Psychologists have proven that "habitual association" with critical complaining people can be enough to sabotage all your opportunities for success. So, you can begin to change your environment by thinking about those people you'd like to be like. Whether these people are alive or from the past, think about the qualities you respect in them and focus on modeling them. Do all you can do to seek out those individuals who are going somewhere with their lives. Read all you can about them and learn to identify with them mentally. As you accomplish this, you'll find that the negative people in your life will go away and you will attract other winners!

Often we fail to realize how influenced we are by the people we work with, socialize with and spend time with. The solution to this is quite simple;... "surround yourself with the kinds of people you want to be like!!!!"

Unfortunately when dealing with the topics of cranes, rigging, and regulations, you won't find an abundance of people knowledgeable of this issues at your local Rotary Club meetings, or at the Chamber of Commerce dinner gatherings. This is one of the many reasons why the ACRP was formed. And if you take a look at our members, you will discover that we have attracted some of the best people in the industry. And the wealth of information and experience of the people attending our annual event is very impressive and highly motivational.

This years National Assembly and Workshop in Detroit will supply you with a healthy dose of "Brain Food". We will feed your brain the proper food, increase your self-confidence, and provide you with the positive actions needed to keep your mind healthy.

Of course you can also exercise your body on the golf courses, feed your faces at some great local restaurants, and just enjoy some of the wonderful sights in and around the "Motor City".

# ITINERARY TENTATIVE

## ACRP 2003 NATIONAL ASSEMBLY & WORKSHOP

<b>Wednesday May 28, 2003</b>	<b>Wednesday May 28, 2003</b>	
	8:00 am – 12:00 pm	<b>Board Meeting</b>
	1:00 pm – 6:00 pm	<b>Golf Tournament</b>
	11:00 am – 7:00 pm	<b>Registration</b>
	7:00 pm – 9:00 pm	<b>Welcome Reception</b> - Cocktails and Heavy Hors d'oeuvres

<b>Thursday May 29, 2003</b>	<b>Thursday May 29, 2003</b>	
	7:30 am	<b>Continental Breakfast</b>
	8:00 am – 9:00 am	<b>General Session</b> - Welcome, Opening, Review Assembly Goals, Introduction of New Members and “ACRP Rigging Challenge”
	9:00 am – 12:30 noon	<b>Plant Tour</b> - Tour of Mazda Plant, Flat Rock, MI
	12:30 pm – 1:15 pm	<b>Lunch</b>
	1:45 pm – 3:45 pm	<b>Sling Destructive Testing Workshop</b> Join Garland Knight, Sr. at Commercial Group. See first hand causes of wire rope failures.
4:15 pm – 6:15 pm	<b>Advanced Rigging Workshop</b> , by Mike Parnell, Industrial Training International.	
<i>Breaks as Appropriate</i>		
<b>Dinner is on your own.</b>		

<b>Friday May 30, 2003</b>	<b>Friday May 30, 2003</b>	
	7:30 am	<b>Continental Breakfast</b>
	8:00 am – 8:30 am	<b>General Session</b> - Assembly Update/ “ACRP Rigging Challenge”
	8:30 am – 10:45 am	<b>Sling Applications &amp; Technology Workshop</b> - Presented by Mike Gelskey, Lift-It Manufacturing Co., Inc.
	10:45 am – 11:00 am	<b>Break</b>
	11:00 am – 12:00 pm	<b>Hardware Fittings Application Workshop</b> - Presented by Dale Edmonds, Rud-Chain, Inc.
	12:00 pm – 1:00 pm	<b>Lunch</b>
	1:00 pm – 2:00 pm	<b>Overhead Crane Technology</b> - Brian Overly, Crane Equipment and Service, Inc.
<i>Break as appropriate</i>		
2:00 pm – 5:00 pm	<b>Standing Committee Meetings</b> -	
7:00 pm – 9:00 pm	<b>Banquet</b>	

<b>Saturday May 31, 2003</b>	<b>Saturday May 31, 2003</b>	
	7:30 am	<b>Continental Breakfast</b>
	8:00 am – 9:00 am	<b>General Session</b> “Final ACRP Rigging Challenge”
	9:00 am – 10:00 am	<b>Election Results and Business Meeting</b>
	10:00 am – 11:00 am	<b>Industry Update</b>
	11:00 am – 12:00 pm	<b>Committee</b> – reports and planning
	12:00 am – 3:00 pm	<b>Board meeting</b> – All Board members are required to attend

## 2003 ACRP NATIONAL ASSEMBLY PRESENTERS

**CASE STUDY - SLING APPLICATIONS & TECHNOLOGY** BY MIKE GELSKEY, LIFT-IT MANUFACTURING COMPANY, INC. Mike will present "Synthetic building blocks used in the construction of synthetic slings" or "Everything you ever wanted to know about fabricating synthetic slings, but were afraid to ask."



Mike Gelskey

**HARDWARE FITTINGS APPLICATION WORKSHOP** BY DALE EDMONDS, RUD-CHAIN, INC. Dale will show how unique and new lifting attachments help turn tough and dangerous rigging projects into simplified task. Mr. Edmonds will demo new products available to solve a number of lifting applications problems.

**OVERHEAD CRANE TECHNOLOGY**, BY BRIAN OVERLY, OF CRANE EQUIPMENT AND SERVICES. Mr. Overly will discuss the latest inspection & testing requirements for industrial bridge type cranes. He will note current standards that require this testing ( by CMAA, ASME and OSHA ), as well as insight into any new standards that are on the horizon.



Mike Parnell

**ADVANCED RIGGING WORKSHOP** BY MIKE PARNELL, INDUSTRIAL TRAINING INTERNATIONAL, INC. Master Rigger Short Course. This advanced rigging program will focus on skills and knowledge building in a variety of rigging subjects. Through short training sessions and problem solving workshops the participants will help one another gain skills in subjects such as: Multiple-CG loads, Off-level pick points, Two-Crane lifts, Jacking and rolling, Angle/Length/Height/Run ratios, Spreader bar lifts and critical Lift Plans. Materials for the program, booklets and Master Rigger's Reference Cards will be provided.

## Onsite Tours of Detroit Area Facilities



**Mazda Ford Alliance Plant Tours** located in Flat Rock Michigan is about 30 miles south of downtown Detroit. We will be touring the assembly plant and plan to see the general activities for material handling. Each car travels 13 miles during the course of production at AutoAlliance who currently employ approximately 1900 employees. In the body assembly area, 400 robots perform 97% of the welding tasks. We are looking forward to a special behind the scenes tour of their use of cranes and special rigging needed in this busy plant.



**Sling Destructive Testing** conducted at The Commercial Group, Commercial Wire Rope by Mr. Garland Knight Sr. This 2.5 hour educational workshop's goal is to demonstrate to crane and rigging trainers the importance of competent rigging inspection. A variety of slings will be prepared with simulated field damage such as cuts, burns, crushing, gouges, knots, loss of cross section, etc. Then slings of the same family would be pulled to destruction, recording the results.

The following slings will used in the demonstration:

- 12ea. EE 1-9-2 x 6', synthetic web slings
- 6 ea. EN 60 x 6', synthetic roundslings
- 8 ea. EE 1/2" x 6', wire rope slings
- 4 ea. SOS 1/4" x 4', alloy chain slings

# ANNUAL ACRP NATIONAL ASSEMBLY GOLF TOURNEY ROUGE PARK GOLF COURSE

This challenging 18-hole golf course features sloping hills and water hazards. With the Rouge River coming into play on numerous holes, this course presents risks and rewards for novice and seasoned golfers.

But who cares about golfing skill. This is an opportunity to join with your fellow ACRP members for a fun day in the open air, getting exercise and enjoying a game of pasture pool.



Picture your tee shot in the fairway, setting up on green grass, waiting for your iron shot to the green.



So bring your clubs and join in the fun. Golf is scheduled on Wednesday, May 28th at 1:00 PM.

The course is near the hotel and we will be playing a scramble under the direction of our sports chairman, Dave Ritchie

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## WELCOME TO ACRP 2003 NEW MEMBERS

*You may want to add them to your directory*



**Jim Beauchamp**

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"Those who bring sunshine to the lives of others cannot keep it from themselves."

— James Matthew Barrie

"A good plan executed right now is far better than a perfect plan executed next week."

— George S. Patton

# QUICK QUIZ

## RIGGING WITH MANUAL HOISTS

1. The ASME requirements for portable hand hoists are covered by \_\_\_\_\_.

2. The ASME requirements for manually operated lever hoists are covered by \_\_\_\_\_.

3. The ASME requirements include that the operator SHALL:

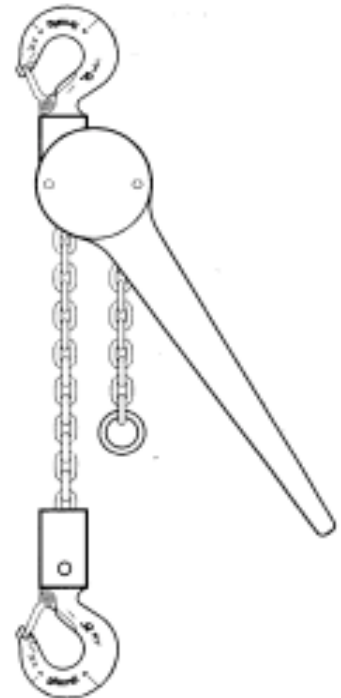
- a. Be familiar with \_\_\_\_\_.
- b. Verify load is seated in \_\_\_\_\_.
- c. Verify that load will be properly in \_\_\_\_\_.
- d. Verify that the load hoist is not \_\_\_\_\_.
- e. Avoid quick reversal of \_\_\_\_\_.
- f. Check hoist brake after \_\_\_\_\_.
- g. Slowly take up chain slack to \_\_\_\_\_.

4. The ASME requirements include that the operator SHALL NOT:

- a. Operate hoist if \_\_\_\_\_.
- b. Use hoist load chain as a \_\_\_\_\_.
- c. \_\_\_\_\_ the rated load capacity.
- d. Operate if tagged with \_\_\_\_\_.
- e. Engage in any activity that \_\_\_\_\_ attention.
- f. Use means other than \_\_\_\_\_ to operate.
- g. Leave suspended load \_\_\_\_\_ unless precautions taken to prevent inadvertent lowering.

### ANSWERS TO CHOOSE FROM:

- A. B30.16
- B. B30.21
- C. Kinked or twisted
- D. Balanced
- E. Operation
- F. Base of hook
- G. Out of service tag
- H. Exceed
- I. Sling
- J. Damaged
- K. Avoid shock
- L. Initial lifting
- M. Direction
- N. Unattended
- O. Manual power
- P. Diverts



**QUICK QUIZ**  
**ANSWER KEY PAGE 10**

## MEMBERSHIP SERVICE GUIDELINES

Members of the ACRP are encouraged to participate in all association activities to share their knowledge with others and increase their knowledge thereby improving crane operations and rigging activities in all industries.

### *Individual Member Participation*

- Attend and participate at the National Assembly on a committee.
- Are encouraged to complete Session and Assembly evaluation forms.
- Participate on "One on Ten" membership drive.
- Suggest three themes and destinations for future National Assembly's.
- Declare that your training course meets ACRP "Standards of Excellence."
- Are encouraged to become IACET Authorized Providers of the CEU.
- Collect 12 business cards and write 2 notes about that person on the back.

### *Committee Participation*

- Commit to working on a committee for 1 year, help achieve its 3 milestones for that year even after the National Assembly is over.
- Commit to taking on at least one delegated responsibility or assigned task and complete it on your own time after the Assembly (by October 1).
- Commit to setting aside 4 to 8 hours for working on an ACRP related task and completing it by the agreed upon date.

### *Board Member Participation*

- Commit to taking a leadership role on a committee.
- Agree to actively seek new members =>meet and greet them into service.

- Agree to set aside 12 – 18 hours of service outside Board/Assembly meeting.
- Agree to make follow up personal phone calls to potential new members.
- Agree to attend Board Meetings, arrive prepared to make progress, leave with clear goals and objectives for the next six months.

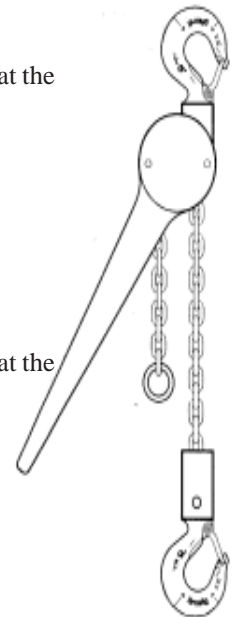
### *Executive Officer Participation*

- Commit to support the Board Chairman and President in completing the objectives.
- Stand behind & support new initiatives agreed upon by ACRP Members.
- Come to Board Meetings prepared to make progress, help organize and facilitate the meeting, check progress with others as delegated by BC or P.
- Agree to set aside 24 – 32 hours service outside Board /Assembly meeting.

## QUICK QUIZ ANSWER KEY

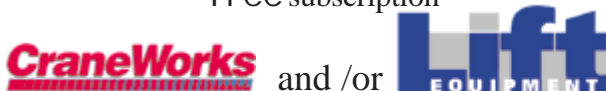
(SEE QUIZ ON PAGE 9)

1. A - B30.16
2. B - B30.21
3. The ASME requirements include that the operator SHALL:
  - a. E - Operation
  - b. F - Base of hook
  - c. D - Balanced
  - d. C - Kinked or twisted
  - e. M - Direction
  - f. L - Initial lifting
  - g. K - Avoid shock
4. The ASME requirements include that the operator SHALL NOT:
  - a. J - Damaged
  - b. I - Sling
  - c. H - Exceed
  - d. G - Out of service tag
  - e. P - Diverts
  - f. O - Manual power.
  - g. N - Unattended



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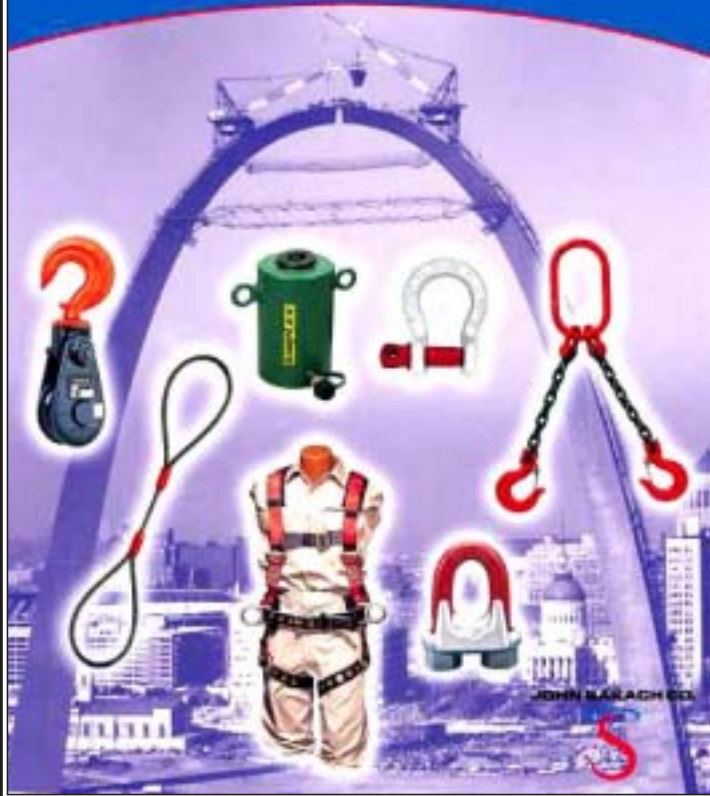
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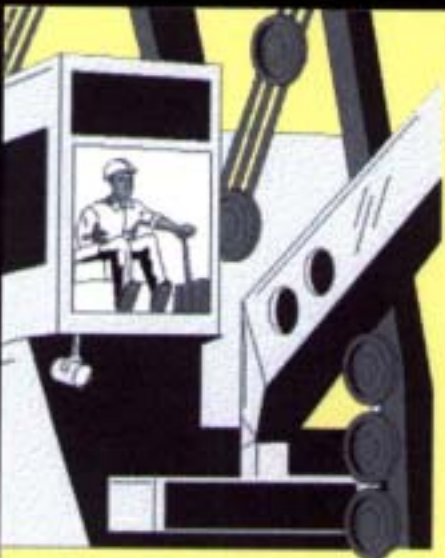


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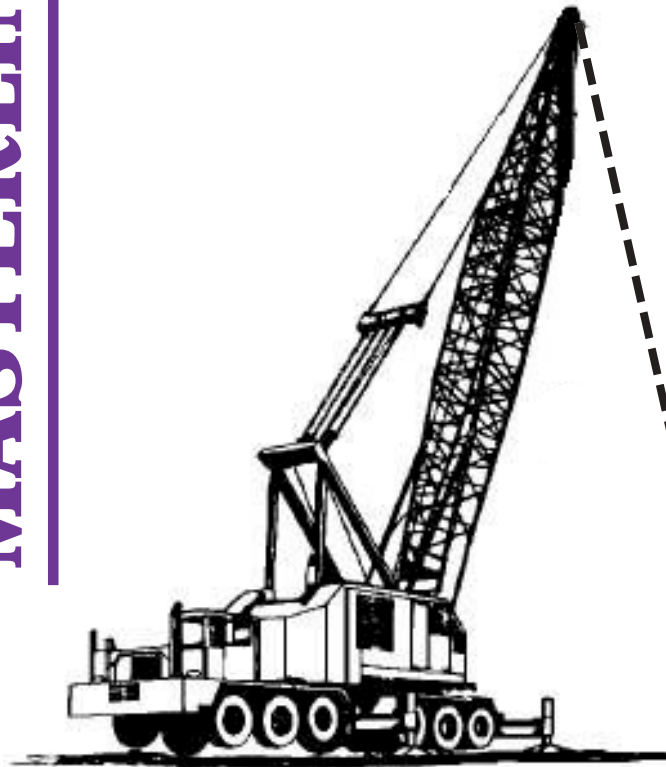
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# MASTERLINK



## 2003 General Assembly Meeting!

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### The ACRP Mission

*The purpose of the Association will be to promote lifting equipment safety, improve the quality of lifting equipment training, consulting, and inspecting, and to represent the subject of lifting equipment safety in regulatory forums.*

From ACRP's By-Laws, adopted May 20, 1996,  
Revised April 2003

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