

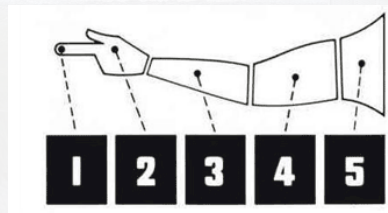
Click or pull any
corner to turn
pages

MODAPTS®

IMA Fall 2017 eNewsletter



Endless Summer!



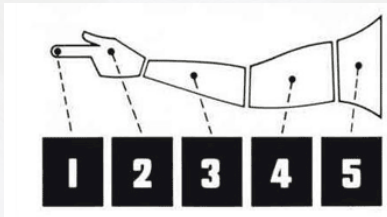
THANK YOU

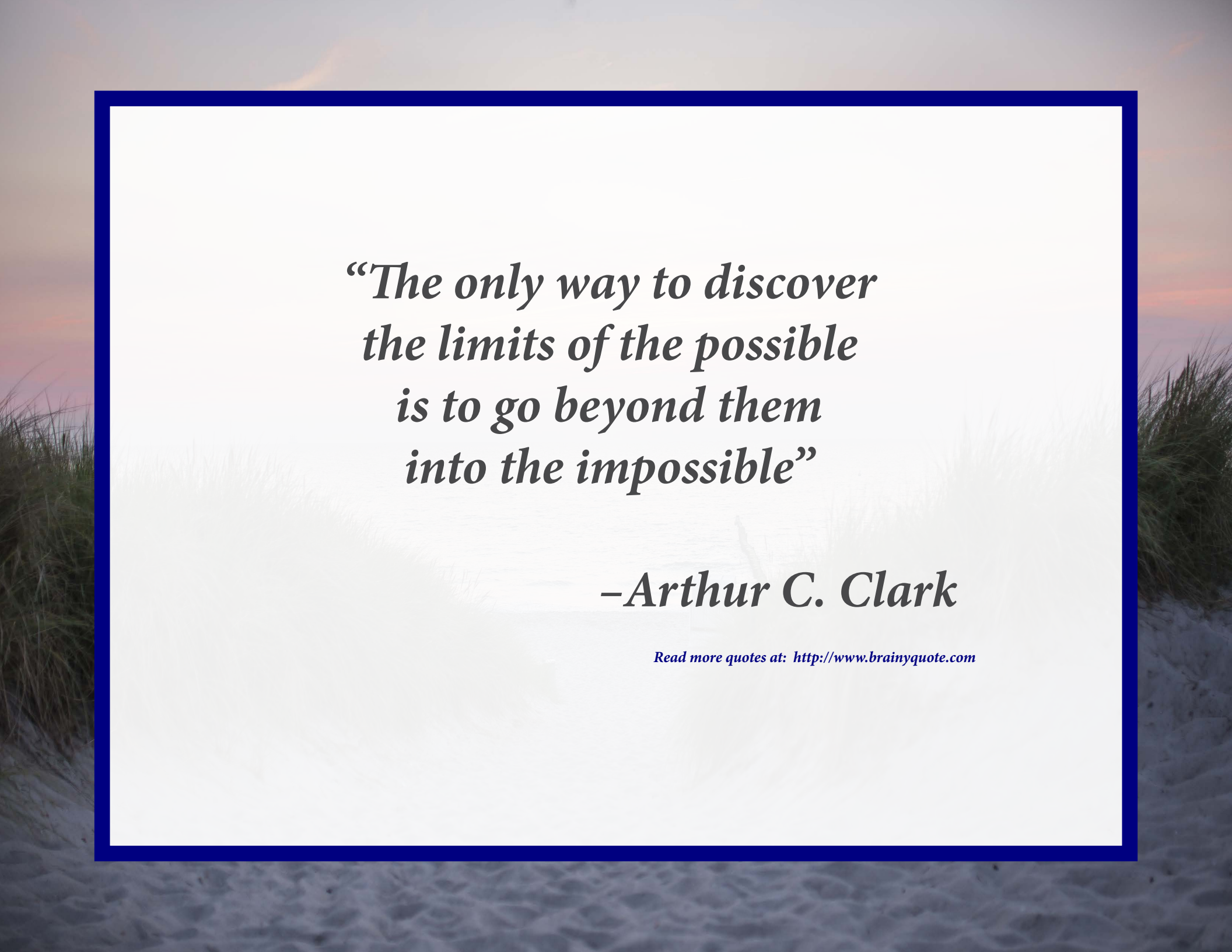
We want to thank everyone in the IMA membership for their continued support and dedication to the MODAPTS® program, we have been very busy in making changes to the program to further educate you in the MODAPTS® system and we believe that the changes to the Yellow, Green, and Black Belt programs have accomplished that and we will continue to further improve our programs to address your needs.

~George Miko, Founder and Vice-President of Communications

As Henry Ford was once asked about the development of the automobile, "If I had asked people what they wanted, they would have asked for faster horses."

This statement relays the importance of innovation, all we do, and what the Board of Directors have provided the membership to move forward in this every changing world of ours, but unlike Mr. Ford we rely on the communications between the Board and our members to further improve our knowledge and expertise in the MODAPTS® system, so we thank you again!



The background of the image is a photograph of a beach at sunset. The sky is a mix of soft pinks, oranges, and blues. The ocean is visible in the distance, with gentle waves. In the foreground, there are sandy dunes with tall, dark green grass. The entire image is framed by a thick, solid blue border.

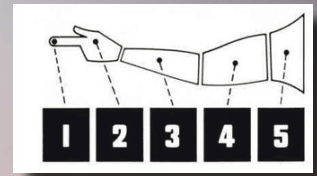
*“The only way to discover
the limits of the possible
is to go beyond them
into the impossible”*

–Arthur C. Clark

Read more quotes at: <http://www.brainyquote.com>



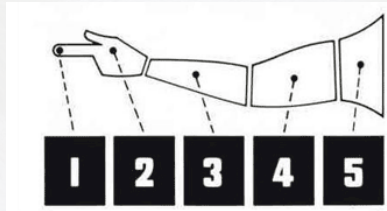
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Attention all Currently Paid IMA Members Only

If you are interested in becoming a Director in the IMA organization, please contact Mr. Gary Sigmon (IMA-President) before October 23rd to be placed on the ballot at the Fall Training Session.

Please email Mr. Sigmon at gpsigmon@charter.net if you are interested in joining our organization. The voting for the new Directors will take place during our Fall session.



MODAPTS® FALL 2017 Registration Form

Click on the form to:

- Open a downloadable file you can print and send in with a check
- Or, an online form to fill out and register online with a credit card

INTERNATIONAL MODAPTS® ASSOCIATION

IMA Fall 2017 Training Conference

DoubleTree Hotel
Cocoa Beach Florida

Date	Time	Session	Room	Instructor
10/25/17	9 am - 4:30 pm	Recertification		
Wednesday	9 am - 4:30 pm	Yellow Belt		
	1 pm - 4:30 pm	Green Belt		
	1 pm - 4:30 pm	Black Belt		
	1 pm - 4:30 pm	Master Black Belt		
10/26/17	9 am - 4:30 pm	Recertification		
Thursday	9 am - 4:30 pm	Green Belt		
	9 am - 4:30 pm	Black Belt		
	9 am - 4:30 pm	Master Black Belt		

Registration table will open at 7 am Wednesday morning 10/25/17

Hotel:

DoubleTree by Hilton, Ocean Front
2080 N. Atlantic Avenue
Cocoa Beach, Florida 32931

(321) 783-9222-For reservations - Online link coming soon

IMA room rate: Standard Rooms \$129

Deluxe/Premium Room \$169

Great place to bring the family and stay a little longer

Conference

Registration:

Mail to: IMA

5119 Kara Dr.

Jonesboro, AR 72401

Email: modapts@suddenlink.net

Fax: (870) 277-0074

MODAPTS® FALL 2017 TRAINING CONFERENCE

Registration Form

Name: _____ Affiliation: _____

Address: _____

City, State, Zip _____

Phone: _____ Fax: _____

Email: _____

MODAPTS® Yellow Belt Certification

\$250 _____

- Must be Certified MODAPTS® Practitioner
- Full day training (includes Reference Materials)
- Includes 1 year certification and membership in IMA

MODAPTS® Green Belt Certification

\$250 _____

- Must have completed all Yellow Belt Requirements prior to 6/1/2017
- 1 1/2 days training (includes Reference Materials)
- Includes one year certification and membership in IMA

MODAPTS® Black Belt Certification

\$250 _____

- Must have completed all Green Belt Requirements prior to 6/1/2017
- 1 1/2 days training (includes Reference Materials)
- Includes one year certification and membership in IMA

MODAPTS® Master Black Belt Certification

\$250 _____

- Must have completed all Black Belt Requirements prior to 6/1/2017
- 2 days training (includes Reference Materials)
- Includes one year certification and membership in IMA

:: ATTENTION ::

SENIOR YEAR INDUSTRIAL ENGINEERING STUDENTS

MODAPTS® The Language of Work

MODular Arrangement of Predetermined Time Standards

The International MODAPTS® Association (IMA) will sponsor (5) Senior Industrial Engineering students for a MODAPTS® Certification Course to be held at the 2018 Spring Conference in Cocoa Beach, Florida at the Doubletree Hotel. This certification is highly regarded and sought within leading Fortune 500 companies who are actively looking for graduates.

The (5) selected senior students will receive formal training in this Pre-determined Time System. The (4) day hands-on interactive course will be followed by a certification exam and upon successful completion each student will be awarded a certified practitioner card. The MODAPTS® certification course also includes a (1) year membership in the IMA free of charge-- valued at \$650.00. (All travel expenses will be incurred by the student).

To be considered for sponsorship you must contact:

Mr. Darren May, IMA Executive Director

Ph :: 870.277.0870

email :: modapts@suddenlink.net

Please Note :: Additional student discounts will be offered based on responses to this offer.

MANDATORY TRAINING & PREREQUISITES FOR:

Yellow Belt Training



Prerequisite:
Current Certified Practitioner

1 day MODAPTS® training for certified practitioners with one or more years of experience designed to expand knowledge and application of simultaneous motions, auxiliary elements, and conduct more detailed analyses. Requirements: Passing test with 90% proficiency. One example of personal work required for class, including a graded homework assignment.

MANDATORY TRAINING & PREREQUISITES FOR:

Green Belt Training



Prerequisite:
Yellow-Belt Certification

1 day MODAPTS® training for certified Yellow Belt practitioners with two or more years of experience designed to expand knowledge and applications of conducting advanced analyses, and using Large/Heavy Objects (Warehouse) and Office MODAPTS® (Clerical). Requirements: Passing test with 90% proficiency. Two examples of personal work required for class, including a graded homework assignment.

MANDATORY TRAINING & PREREQUISITES FOR:

Black Belt Training



Prerequisite:
Green-Belt Certification

1 day MODAPTS® training for certified Green Belt practitioners with three years of experience designed to expand knowledge and application of complicated analyses and set-ups, demonstrate related concepts. Requirements: Passing test with 90% proficiency. Four examples of personal work required for class, including a graded homework assignment.

2016 BELT TRAINING COURSES

MODAPTS® REFRESHER CLASS

Debbie Gray, Christy Fike, Sotu Tanevski, Ed Gemza, Raul Ramos, Douglas Hodges, Brian Kemp, Micah Orr, Matthew Barnett, Fred Weems, Jerry Lawson, Greg Poet, Bill Ellis, Casandra Shadridger, Jodey Dunn, and instructors Dianne Smith and Rick Evans



Photo of the Practitioner Class in Cuautitlan, Mexico class taken July
Instructor: Tom Sechrist

MODAPTS® PRACTITIONER CLASS

Chris Calumpong, Vishnuvardhan Bhutalapalli, Pat Tremblay, Jimmy Ford, Jim Fisher, Scott Eskridge, Brian Goff, Kevin Legel, Chuck McCartney, Freddie Haynes, David VanDaele, Jason Wells and instructors Ed Eisbrenner and Adrea Donnelly.





MODAPTS® YELLOW BELT CLASS

Sam Vultaggio, James Arnold, Steve Chorbak, Roger Huges, Jason Regelski, John Seminerio, Tewanda Williams and Instructor Gary Sigmon.



MODAPTS® GREEN BELT CLASS

Here we have Michael Thomas, Matt Smith, John Chee, Amber Sojka, Todd Wyse, Erick Grant and instructors Tom Sechrist and George Miko.

**MODAPTS®
BLACK BELT CLASS**

**Mark Barno, Ron Drake, Tom Afton,
Kevin Young, Karl Barnes, Milena
Johnson and instructor Mark Johnson**



**MODAPTS®
MASTER BLACK BELT CLASS**

**Frank Banet, Alberto Pizana, Tom Rowe, Jim
Ryan, Dianne Smith, Matt Squire, and Scott
Retherford (not shown). Instructors Phil
Taylor and Tom Sechrist**

2017 Heyde Award goes to Scott Retherford, Congratulations Scott



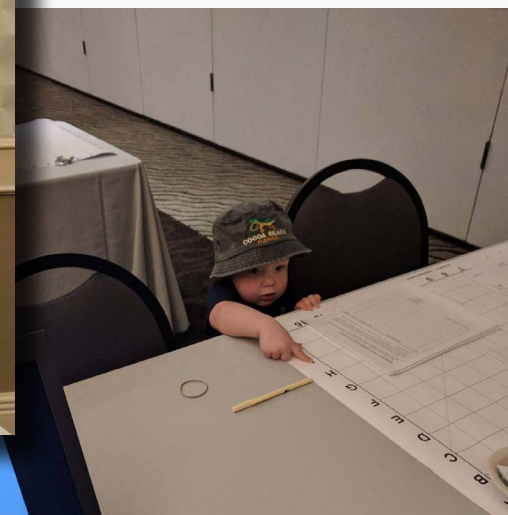
Gary Sigmon, IMA –President, Scott Retherford- IMA-Director, the 2017 Heyde Award Recipient, Tom Sechrist (Founder) IMA-Treasurer, and George Miko (Founder) IMA VP-Communications

IMA'S 1ST SENIOR STUDENT



We have the 1st college sponsored student from Texas A&M – Vishnuvardhan Bhutalapalli

The instructors are Adrea Donnelly, Ed Eisbrenner and Matt Squire (left to right).



This is Andrea Donnelly's (Ford Industrial Engineer) son, Kaden, working out the most complex of MODAPTS® configurations. Kaden is obviously on the fast track to being our next MODAPTS® sponsored student :)

The background of the slide is a photograph of a beach at sunset. The sky is a mix of soft pinks, oranges, and blues. In the foreground, there are dark, silhouetted grasses on the left and right sides. In the middle ground, a small, white lifeguard stand with a dark roof is visible on the sand. The water is calm and reflects the colors of the sky.

PRODUCTIVITY = THROUGHPUT – LABOR COSTS

By Ed Eisbrenner

In manufacturing across this great country of ours, no matter what state a felicity is located, labor is widely accepted to be one of the biggest operating cost in producing a finished product, anywhere from 50 – 70%.¹ The Department of Labor's (DOL) Bureau of Labor Statistics (BLS) recent findings, Warehousing and Storage companies saw rising unit labor cost up 8% and hour worked up 9% in 2015 over 2014 while productivity declined by 4.4%.²

The Warehousing and Storage subsector (North American Industry Classification system / NACIS 493), appears to be a promising opportunity to apply the MODAPTS® work measurement system.

Overall U.S. Unemployment Rates have dropped steadily from an October 2016 high of 10% to a low 4.6% in November 2016.³ Also the need for new people in the warehousing workforce will increase to 1.4 million by 2018,⁴ while keeping those jobs will be equally as challenging, with the BLS reporting workers quit at a rate of 36%.⁵ This would appear to be yet another reason why the application of MODAPTS® and Ergonomics would be a natural fit in the Warehousing industry.

Industry research backs up these statistics. 250 top logistics and supply chain managers said their three biggest workforce challenges are:

1. Finding and keeping qualified/skilled/dependable workers (62%)
2. Increasing workforce productivity (57%)
3. Controlling labor cost (45%)⁶

Mod – apts\, “The Language of Work.” The MODAPTS® tool helps removes barriers to, quality and quantity of work, (human performance), by objectively recoding only the body part movement necessary to perform a task when compared against the standard for that task and plan future work more effectively.⁷

er•go•nom•ics \,ûrg-go-‘näm-iks\ - The science of work. Ergonomics removes barriers to quality, productivity and human performance by fitting products, tasks, and environments to people.⁸

References:

- 1 Peerless Research Group. "Labor management strategies in the warehouse." *Logistics Management*. September 10, 2014. http://www.logisticsmgmt.com/article/labor_management_strategies_in_the_warehouse
- 2 U.S. Department of Labor>Bureau of Labor Statistics. "Productivity and costs by Industry: Selected Service-Providing Industries, 2015." May 18, 2016.
- 3 U.S. Department of Labor> Bureau of Labor Statistics. "Databases, Tables & Calculators by Subject: Labor Force Statistics from the Current Population Survey > Unemployment Rate. <http://data.bls.gov/timeseries/LN140000000>
- 4 Gue, Kevin, Ed., et al. "The U.S. Roadmap of material Handling & Logistics." MHI. January 2014. <http://www.mhlroadmap.org/roadmap.html>
- 5 Peerless Research Group. "Labor management strategies in the warehouse." *Logistics Management*. September 10, 2014. http://www.logisticsmgmt.com/article/labor_management_strategies_in_the_warehouse
- 6 Lbid.
- 7 Eisbrenner, Edward. Eisbrenner Productivity Group. www.eisbrennerproductivitygroup.com.
- 8 Kilduff-Rich, Helen. Ford Motor Company ♦

SUSTAINED POSTURAL & HANDLING DEMANDS

According to the National Safety Council, the cost of workplace injuries and illnesses totals nearly \$200 billion a year. Interestingly, the majority of the cited risk factors associated all have related causation with worker fatigue. We should also acknowledge that as industry advances with efficiencies we are increasing prolonged standing and repetitive upper extremity demands at work.

More of your employees may experience fatigue than you might imagine. In fact, a study in the Journal of Occupational and Environmental Medicine found that nearly 40% of U.S. workers experience fatigue, costing companies an astounding \$136 billion per year in lost productivity.

The use of compression wear is a mainstay in medical treatment of musculoskeletal injuries easily recognized within our own "R.I.C.E. Principle" (Rest, Ice, **Compression**, Elevation). Likewise, compression socks have become a standard in preventative medicine post surgery. The advent of the compression arm sleeves can be attributed to its original design and use by Certified Lymphedema Therapists (CLT's) to help patients reduce chronic accumulation of lymphatic fluid, a disease state known as Lymphedema.



Athletes have also discovered benefits of using compression which can include enhanced muscle recovery by increased blood & lymphatic return, decrease risk of ligamentous injuries though added support around the joint, and decreased conditions resulting from fatigued muscles pulling on the tendons – Tendonitis. Reports of performance improvements in using compression arm sleeves can be linked to the decreased muscle oscillations/vibrations which may improve an athlete's proprioception.

Founded by a Certified Lymphedema Therapist (CLT) and an international leader in work analysis / injury prevention, On Site Therapy is proud to introduce the first line of **Occupational Compression Wear™**. Contact us to discuss how the proper use of compression can help provide a viable fatigue management solution, improving the health and productivity of your workforce.

www.onsitetherapy.com ♦



MANUFACTURING IN AMERICA - 2017

By Ed Eisbrenner

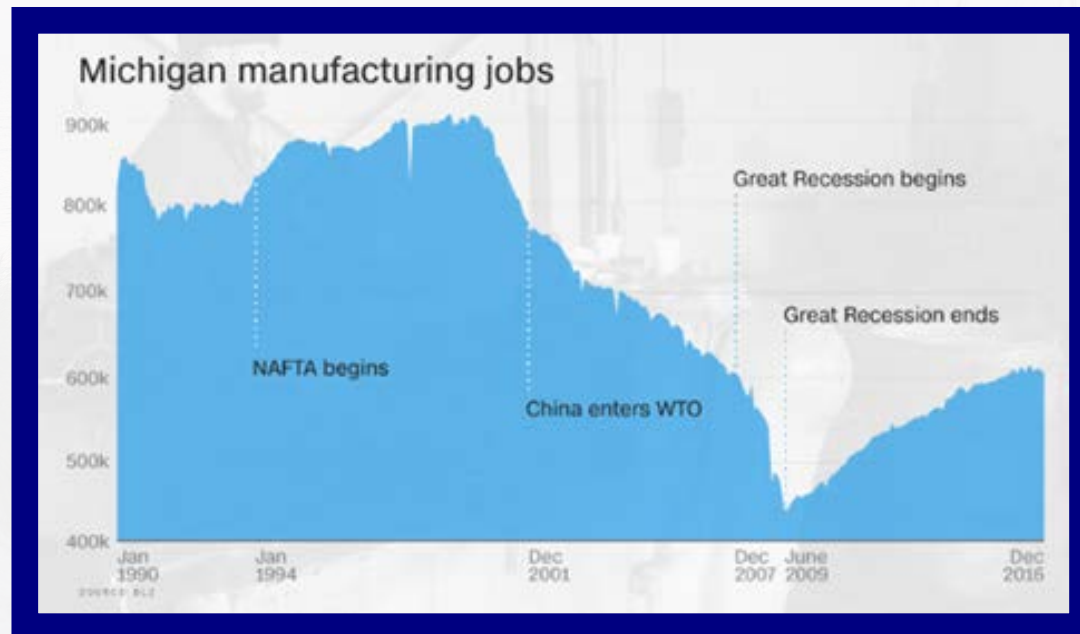


Best kept secret: Michigan is a Top Aerospace State:

- Top 10 state in Aerospace
- Home to more than 625 aerospace suppliers and service providers
- More industrial designers than any other state
- Highest number of electrical, mechanical, and industrial engineers
- Home to two lightweight materials manufacturing institutes: Lightweight Innovations for Tomorrow (LIFT) and the Institute for Advanced Composite Manufacturing Innovation (IACMI)

Not such a secret: Michigan is the Automotive Capital of the World:

- Home to 375 automotive R&D centers
- Headquarters to 63 of the top 100 North American automotive suppliers
- Responsible for 22% of total vehicle production in the United States
- Ranked among the top 10 states for major new and expanding facilities ♦



“HANDPAK”

A TOOL FOR ERGONOMIC ASSESSMENT FOR HAND INTENSIVE TASKS

Presented by: Ed Eisbrenner
June 9, 2017

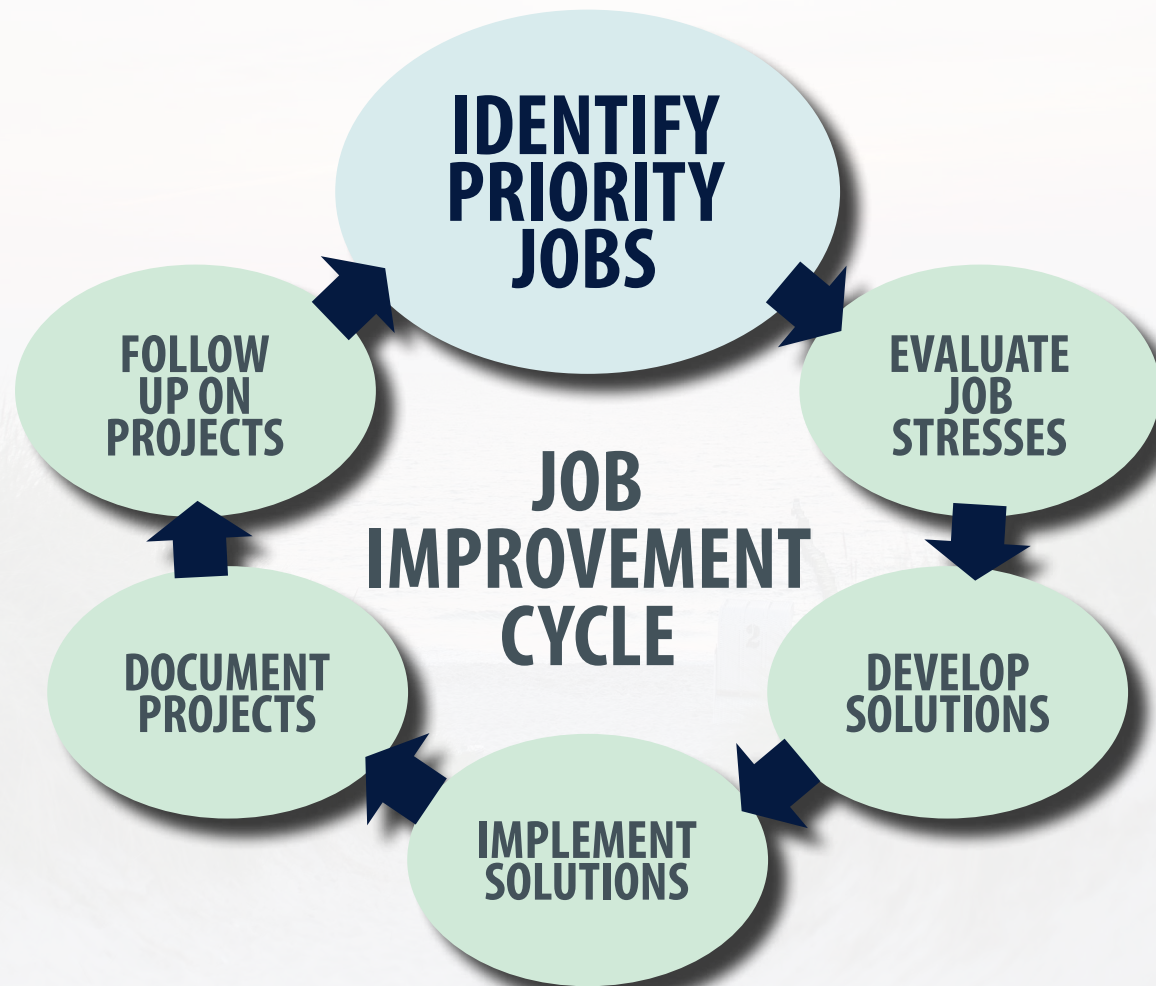
International MODAPTS® Association Spring Conference



COMMITTED TO WORKING TOGETHER AT EVERY FACILITY



THE CYCLE BEGINS





APPLY THE REVISIONS

**OBSERVE AND MODIFY
AS NEEDED TO FIT PEOPLE
TO THE JOB AT TASK**



HANDPAK

<http://potvinbiomechanics.com/>



HANDPAK

Common Inputs and Outputs

Percent Capable

Select the percentage of the population for whom you want the task to be acceptable.

Gender

- male
- female

Frequency

Number of discrete efforts per minute
(0.002/min gives MVC)

Torque: Forearm Pronation or Supination

Gender

Female

Percent Capable ?

75

(% of population accommodated)

Frequency ?

0.002

Duration Range or Value ?

Specific value (in box >>>)

(duration of each effort)

Units of Torque

newton-metres (Nm)

Units

- N or Nm
- lbs or in-lbs

Tips

Specific Duration (s)

Specific Duration (s) ?

0.65

(enter specific duration here)

Duration Range

Pick from three ranges
or enter a specific value

Direction of Torque:

Pronation

Interface for Grip ?

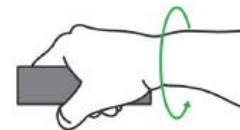
Power Grip with 50 mm diameter

Forearm Pro/Sup Angle (deg) ?

20

Elbow Flexion Angle (deg) ?

70



Review how to use and results based upon different inputs.



The image features the HandPAK logo, which consists of a stylized 'H' inside a blue and green circle, followed by the word 'HANDPAK' in bold, black, sans-serif capital letters. Surrounding the logo are five line drawings of hands in different grip configurations: a power grip, a cylindrical handle grip, a spherical grip, a trigger grip, and a thumb grip. Each drawing includes green arrows indicating the direction of force or movement. Below the logo, the text 'Try the online demo of the industry standard software now' is displayed, followed by a green button with the text 'Click Here'.

HANDPAK

Try the online demo of the industry standard software now

[Click Here](#)



DON'T TAKE A KNEE...

...UNLESS YOU'RE EQUIPED FOR IT

Presented by: Michael Thomas

International MODAPTS® Association Spring Conference

I can tell you the reason for pursuing this information was due to the van that we started building with the different roof heights. This resulted in operators not being able to stand upright, without being in a hunched over position, in the low roof vans. We had to come up with a kneeling posture to perform the work. Some jobs were able to use stools but others this was not feasible. We had to find a standard that dealt with kneeling work.



Michael Thomas during his presentation

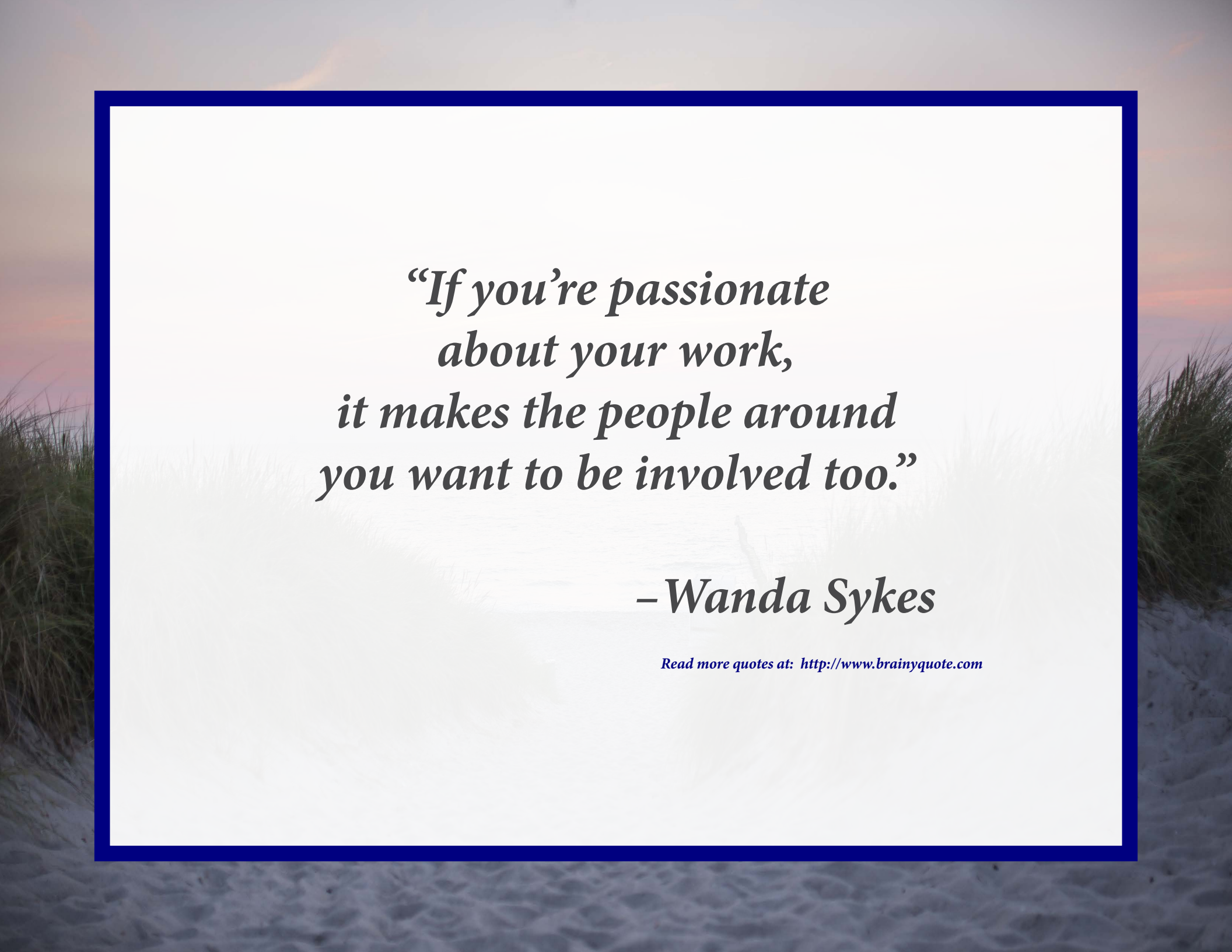
"I was appointed to the UAW Ergonomic Rep position in October of 2008. I am certified through the UAW/Ford Ergonomic training and certification course. (Ergo 101, EST, Analyzing/deep dive tools) Prior to that I had been a committee person for 6 ½ years. I have worked at Ford since May of 1994." ♦

Close up details of the knee pads utilized to overcome these obstacles



**Would you like to submit an article,
presentation, photos, news, or how
you apply MODAPTS[®] related
applications in your work place?
Then send a formatted document to:**

**George Miko
IMA Vice-President of Communications
gmiko1@peoplepc.com
or call 313.561.0611**



*“If you’re passionate
about your work,
it makes the people around
you want to be involved too.”*

– Wanda Sykes

Read more quotes at: <http://www.brainyquote.com>

MODAPTS®

**BOARD OF DIRECTOR'S
MEETING**

**OCTOBER 23 & 24
9 A.M. - 5 P.M.**

BOTH DAYS

ADDITIONAL CONTACT INFO:

**INTERNATIONAL
MODAPTS®
ASSOCIATION (IMA)**

**5119 KARA DR.
JONESBORO, AR 72401**

**PHONE ::: 870.277.0870
FAX ::: 870.277.0074**

**WWW.MODAPTS.ORG
MODAPTS@SUDDENLINK.NET**



MODAPTS® is thinking GREEN, and we ask you to do the same; please think about the environment before you print this eNewsletter. Thank you!