



The American Swimming Coaches Association

ASCA

- A MAIOR ASSOCIAÇÃO MUNDIAL DE TREINADORES DE NATAÇÃO
- TEM 11.580 ASSOCIADOS
- SENDO 4.100 INTERNACIONAIS.
- SEDIADA EM FORT LAUDARDALE, FLORIDA.
- EXISTE DESDE 1959
- INICIOU CERTIFICAÇÕES EM 1985,
- E JÁ DEU MAIS DE 21.000 DIPLOMAS.
- CERTIFICOU INTERNACIONALMENTE MAIS DE 1.300 TREINADORES
- DE 110 PAÍSES,
- ATUALMENTE 14 PAÍSES FAZEM CURSOS DA ASCA
- NO BRASIL ESS É 5 º ANO DE PARCERIA COM A ASCA
- SOBRE A ESTRUTURA DA ASCA NOS EUA :
- O PRESIDENTE É SEMPRE UM TREINADOR RENOMADO COMO:

OS PRESIDENTES DA ASCA

- DOC COUSILMAN
- DON GAMBRIL
- JACK NELSON
- GEORGE HAINES
- PETER DALAND
- RICHARD QUICK
- DICK SHOULBERG
- GREG TROY
- DON HEIDARY (ATUAL-ORINDA AQUATICS-CA)

FALANDO DA NOSSA 5ª CLÍNICA DA ASCA NO BRASIL

Vamos ter **nível 1** comigo 4ºf amanhã aqui na FARJ. O nível 2 será 5ª f. comigo no Mar Palace Hotel em Copacabana e lá também os níveis 3 a 5 de sexta a domingo com o coach Asca 5 MAVIAEL **SAMPAIO**



MAVIAEL SAMPAIO

- Coach ASCA 5- residente nos EUA há 18 anos
- Formado em Educação Física, com Mestrado em Cinesiologia pela University of North Dakota, EUA.
- Como treinador chefe (Head Coach), trabalhou no Yara Clube de Marília (Marilia, SP), USIPA (Ipatinga, MG), C.R.Flamengo (Rio), Universidade de Dakota do Norte (EUA), Etown Dolphins Swim Team (EUA), Elizabethtown High School Swim Team (EUA) e Swimchester Sailfish Swim Team (EUA).
- Primeiro treinador sul americano à se tornar Head Coach de uma Universidade nos EUA, Maviael também foi o primeiro a atingir o nível 5 da ASCA, e a ser eleito NCAA "Coach of the Year" em qualquer uma das divisões da natação universitária americana.
- No Brasil, foi treinador da seleção brasileira absoluta no Pan de 1999 em Winnipeg-Canadá, nos Mundiais de 1998 (Hong Kong) e 2000 (Atenas). nos Sul americanos de 1998 (San Felipe, Venezuela) e 2000 (Mar del Plata, Argentina) e na Copa do Mundo: 1998, 1999, 2000 (Rio).
- Tendo seus atletas conquistado vários títulos nacionais e internacionais, além de terem batido recordes nacionais e continentais absolutos.
- Nos EUA, durante os anos à frente da Universidade de Dakota do Norte, teve 32 nadadores se colocando entre os 8 melhores no Campeonato Universitário Americano de segunda divisão, tendo seus atletas batido 6 recordes nacionais, e obtido 32 títulos de Campeões Universitários Americanos.
- Como nadador participou pela seleção Brasileira em Campeonatos Sul Americanos (Campeão absoluto), Mundiais Universitários (décimo colocado), e Jogos Pan Americanos (quinto colocado), sempre em provas do nado de peito.
- Como nadador Master, foi campeão mundial em 1989 e 1990.
- Casado com Ana Lúcia, reside em Winchester, Kentucky, tem duas filhas: Manuela (22 anos, nadadora e estudante da Universidade de Louisville), e Mariana (20 anos, estudante de Música em Los Angeles, Califórnia).

AGORA VAMOS FALAR DA DA 50^a CLÍNICA MUNDIAL DA ASCA O MAIOR EVENTO DO GÊNERO NO **MUNDO**

EM ANAHEIM- CA, EUA
3 A 9 DE SETEMBRO DE 2018

- ESSE ANO FOI DE 3 A 9 SETEMBRO A 50^a ASCA WORLD.
- É A MAIOR CLÍNICA MUNDIAL DE TREINADORES DE NATAÇÃO COM 1200 INSCRITOS DE 49 PAISES.
- O RECORDE FOI EM INDIANAPOLIS 2010 C/ 1826 INSC.
- UM EVENTO QUE ACONTECE DESDE 1969, HÁ 50 ANOS.
- SÃO 60 PALESTRAS E ENCONTROS DIVIDIDOS EM 7 EIXOS:
- FAIXA ETARIA/GESTÃO/UNIVERSITÁRIO/COLEGIAL/ MASTERS/ SENIORS E ESCOLA ASCA* ONDE:
- * CERTIFICAM-SE TREINADORES NOS NIVEIS ASCA 1 A 5
- HÁ 1 FEIRA DE EQUIPAMENTOS E SERVIÇOS DE 3 DIAS ONDE EXPOEM CERCA DE 50 FORNECEDORES :
- A ASCA COMEÇA NUMA 3ª F. E TERMINA DOMINGO.
- CADA DIA TEM EM MÉDIA TEM 12 h DE ATIVIDADES.
- HÁ UMA FESTA DE ABERTURA E UM JANTAR DE GALA ONDE SÃO PREMIADOS E RECONHECIDOS OS MAIORES TREINADORES DOS EUA.

Em 2018 O BRASIL TEVE APENAS 10 ABNEGADOS REPRESENTANTES:

GILBERTO JUNIOR MARIO SOBRINHO

ROBERTO STRAUSS

WLAD VEIGA

EMANUELLE SARKIS

FERNANDO MARCOS SORAGGI

FERNANDO SORAGGI

ANA GABRIELA SORAGGI MATHEWS

DJAN MADRUGA

HALLER FREITAS

Foto de parte dos brasileiros aqui na ASCA, da esquerda: Djan Madruga, Gilberto Junior, Emanuelle Sarkis, Fernando Marcos Soraggi, Fernando Soraggi e Ana Gabriela Soraggi Matthews.









SEMPRE ESTRELAS DA NATAÇÃO - ENTRE **ANTHONY ERVIN** E **JOSH DAVIS** dois campeões olímpicos Ervin (2x a última nos 50L do Rio) e Josh Davis (3x nos revezamentos em Atlanta).



Com o britânico JAMES GUY, tricampeão mundial em Kazan e 2X vice- olímpico de revezamento



GALA DINNER



GALA DINNER



COUNSILMAN CREATIVE CONTEST



"This Really Works" POSTER PRESENTATIONS

Be an ASCA World Clinic presenter! Share your creative ideas that "Really Work" Win some big money too! Judging based upon <u>originality, creativeity, simplicity, motivation, and FUN for kids to do and coaches to watch.</u>

The Order of Events

Illustrate
 Name it!
 Post it!
 Exhibit Hall – DEADLINE THURSDAY 3:00 PM
 Get 'em
 Judging
 Awards
 Spend it!
 Include: name, club and cell phone number)
 Exhibit Hall – DEADLINE THURSDAY 3:00 PM
 Get ideas Take phone photos or write 'em down
 Thursday 4:00 - Finalists notified by phone
 Finalists MUST attend Award Banquet to receive prize
 Win, place or show

Win, place or show ASCA Newsletter!

8. Read it!

1st Place - \$400 2nd Place - \$300 3rd Place - \$200 4th Place - \$100

Prize money donated by the Counsilman Lecture Series.

DISTANCE SETS

Distance Set

1:00 rest

8x50 KICK 1:00 Variable Sprint 25 HARD /25 EZ /25 HAND /24 50 e3

500 7:00 for Average time as fast as or faster than 500 f

WT - WI 7992

May The 4th Coach: Clay Prait, Katy Aquatics, 832.348.0577 Be with you! 40 x 25's e:30 #1-3: Breathe Every 4th #4: FAST Fly) - 20 Deep Squats How Many Death stars e - Eighty (50) Flutter Kicks Canyou Destray: A-All Out & 100 Free 1-Padwan 2- Apprentice T-Ten (10) Push-ups H-Hundred All Out Kick 5- Vader 5-Sprint 50 Fly Try Note A - Airless 2x25's Breath Control Do Dr Do Nots K-Really Fast 100 IM

PRINT SETS

using Long belt Stretchion

ony belt stretch cordz. Kickboard, Fins are optional

peat 3 to 8 x (depend on time

10 sprint Kick on :10-15 Rest Wistretchcordz

Make to the wall or : 20 sprint swim wn :10 to:15 rest Wistretchcordz

25 or 50 From the block for time (NO EQUIPMENT)

BENEFITS

water · change the Normal poact. Routine · challenge athletes by trying to make it to the wall

· ALLOW swimmers to just go Fost

c 1-3 mms. . Coacles can observe & have time To communicate u/ swimmer on

ree . ODD: Free /Ewn : Best Non Fre now . I Morder

NESSE JANTAR A ASCA ANUNCIA OS TREINADORES AMERICANOS DO ANO. JÁ CONQUISTARAM ESSA HONRA:

- Doc Counsilman (1º em 1961),
- Peter Daland (1), Don Gambril (1)

 Jim Montrella (2), Randy Reese (2), Greg
 Troy (2), Bruce Gemmell (2)

 Dick Shoulberg (2), John Urbanchek (2),

Richard Quick (4), George Haines (4),

Mark Schubert (5), Eddie Reese (5),

Bob Bowman (5) e Dave Durden (1) e RAY LOOZE (1) em 2017.

1º ANUNCIAM O AGE GROUP COACH OF THE YEAR





2018 ASCA COACH OF THE YEAR

The ASCA Coach of the Year Award is given annually to the individual whose coaching effectiveness has contributed the most towards American Swimming Excellence at the World Level.

The Award recipient is elected by the ASCA Board of Directors. Nominees are submitted by a three person committee appointed by the ASCA President at the previous year's World Clinic Board Meeting and chaired by the ASCA Vice-President. Nominees shall be ASCA Members at the time of the presentation of the Award.



Past Award Winners:

1961 Doc Counsilman 1962 Peter Daland 1963 Dick Smith 1964 George Haines 1965 Don Gambril 1966 George Haines 1967 George Haines 1968 Sherm Chavoor 1969 Jim Montrella 1970 Don Watson 1971 Jim Montrella 1972 George Haines 1973 Bob Miller 1974 Dick Jochums 1975 Mark Schubert 1976 Mark Schubert 1977 Paul Bergen 1978 Paul Bergen 1979 Randy Reese 1980 Dennis Pursley 1981 Mark Schubert 1982 Dick Schoulberg 1983 John Collins 1984 Randy Reese 1985 Nort Thornton 1986 Richard Quick 1987 Bud McAllister 1988 Bud McAllister

1989 Dick Schoulberg

1993 Skip Kenney 1994 Rick Curl 1995 Jon Urbanchek 1996 Murray Stephens 1997 Mark Schubert 1998 Richard Quick 1999 Richard Quick & Mark Schubert 2000 Peter Banks 2001 Bob Bowman 2002 Teri McKeever 2003 Bob Bowman 2004 Eddie Reese 2005 Eddie Reese 2006 Eddie Reese 2007 Bob Bowman 2008 Bob Bowman 2009 Eddie Reese 2010 Gregg Troy 2011 Gregg Troy 2012 Bob Bowman 2013 Bruce Gemmell 2014 Bruce Gemmell 2015 Bruce Gemmell 2016 Dave Durden 2017 Ray Looze

1990 Jon Urbanchek

1991 Eddie Reese

1992 Richard Quick

MARK SCHUBERT





Professional is not a label you give yourself-it's a description you hope others will apply to you.

- David Maister

coaching is Already our profession...

DEMANDING PROFESSIONALISM is NEXT LEVEL

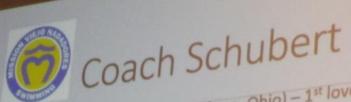
Pursue Excellence to remain competitive

<u>Proficiency</u>: Knowledge base

Professionalism:

Everything Else!





HS Coach - Cuyahoga Falls HS (Akron, Ohio) - 1st love Mission Viejo Nadadores, SoCal: one of the largest teams in the nation

from 50 to 550 swimmers in 13 years

• 43 National Championship teams! 15 USA Olympians! 8 Olympic Champions

Mission Bay, Boca Raton: developed aquatic center (& club) in south Florida

College - over 20 years

- ₀ University of Texas 2 NCAA Champs (& 2 runner-ups)
- USC (*Trojan for life) 1 NCAA Champs & 5 Olympic Champs
- o Golden West College 4 state championship teams

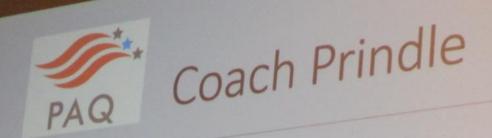
Mission Viejo Nadadores again: serious as ever, back to high-schoolers

Since 1980 - Multiple stints leading Team USA (7 OG & 2 WC) 38 swimmers onto US Olympic Teams!

Multiple Halls of Fame







- What does it look like for you (find your WHY)
- Find ways to make that happen
- No substitute. NO way to be credible if you DON'T KNOW
- **✓**Coach Education

'Everything Else' can make or break a career

- Behavior treat others well
- Actions find a way to contribute. GET INVOLVED!
- Demeanor/look you are on stage

Are you SERIOUS?

Reputation is all you have. Die with it





THE RISE OF "fitness EXPERTS"





...definition of professional has shifted

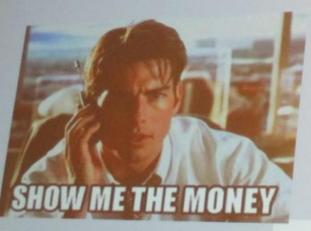


"We used to treat sports like a nice little plaything. Now it is one of the top growth products in

David Howman, Japan News (Former Director-General, WADA)

"The sports market in North America was worth \$60.5 billion in 2014. It is expected to reach

Darren Heitner, Forbes magazine (lawyer & Founder of South Florida-based firm, Heitner Legal)







CAREER PATH? WHAT CAREER PATH?

RARELY LINEAR

NO SET PATH: DIFFERENT FOR EVERYONE

WHAT YOU KNOW VS WHO YOU KNOW

RIGHT PLACE, RIGHT TIME = LUCK/GREAT ATHLETE

THINK DIFFERENTLY!

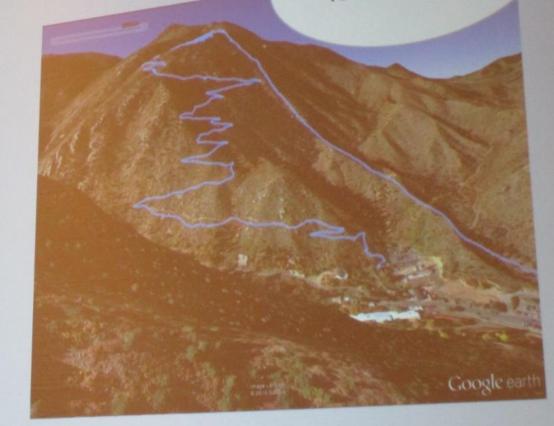


The wild WILD west

YOU CAN CHOOSE
YOUR OWN PATH

"THERE'S MORE THAN 1 WAY TO SKIN A CAT"

Incline Incline





Proficiency: Knowledge base Professionalism: Everything Else!

"In every town in the USA, there is an Olympian.
Unfortunately, there isn't an Olympic Coach.
Wherever you live, you can develop an Olympian"
~Pete Lewis (Shoulberg's 1st coach)





Proficiency: Know your sport

- EXPERIENCE = Time on-deck (nothing better!)
- Coach a Range of athletes/skills thru your career
- Become a student of the sport (biomechanics, technique, dryland)
 - Attend Clinics, etc.
 - Online learning
- * Facebook Swim Coaches Group
- Find a Mentor for career advice
 - Visit them, watch them, ask questions
- Build a network of coaching friends
- **Develop your OWN training/coaching philosophy

WATCH. LEARN. LEAD. TEACH

Professionalism: Everything Else!

"3 C'S":

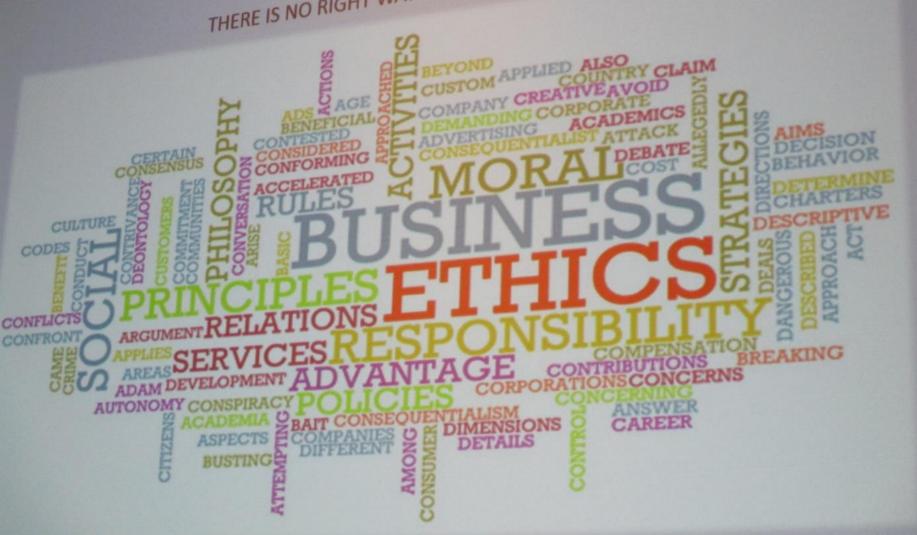
- □HOW YOU SPEAK = COMMUNICATION
 - ☐HOW YOU ACT = CONSISTENCY
- □HOW YOU LOOK/APPEAR = COMPORTMENT



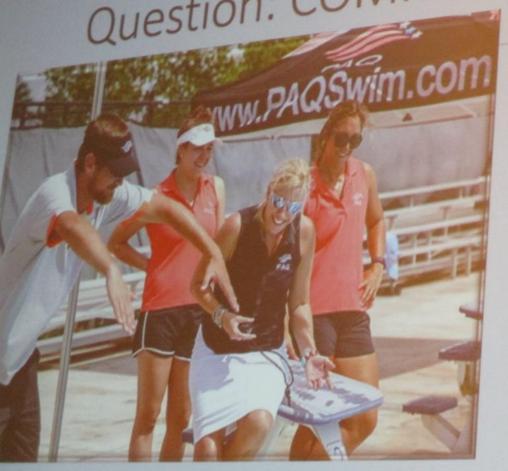
CONFIDENCE

2 COMPETANCE

QUESTION: ethics THERE IS NO RIGHT WAY TO DO THE WRONG THING



Question: COMMUNICATION (Mark)



"COMMANDER'S INTENT"

- >PREPARE YOUR PEOPLE WELL
- COMMUNICATE THE GOAL
- >ALLOW THEM TO EXECUTE
- >(AND, ENJOY THEM!)

Often Overlooked, but Import

- Never stop asking
- Never stop giving (pay it forwa
- · Competition is OK,
- · We are not robots
- Opportunity NOT C

QUESTION: What about Mentors? (Mark) PERFORMANCE AQUATICS

Question: "BALANCE" – Emotional/Mental health (Mark)

HOW WE HANDLE THE JOURNEY WILL DETERMINE THE DESTINATION. -BILLY COX

Journal, if you have time

 Adds credibility to your athletes if YOU are an athlete Stay Physically Fit

 Enjoy food, eat to stay healthy Eat well

Balance?

Is there such a thing?

Establish Healthy Boundaries

- How far will you go to ensure the success of your team?
- Who are YOU married to?

Separate yourself from Performance

Emotional boundaries - don't obsess!

Know (or get) a community

- Use you friends/network of resources for support
- Religion/Hobbies/Family-kids



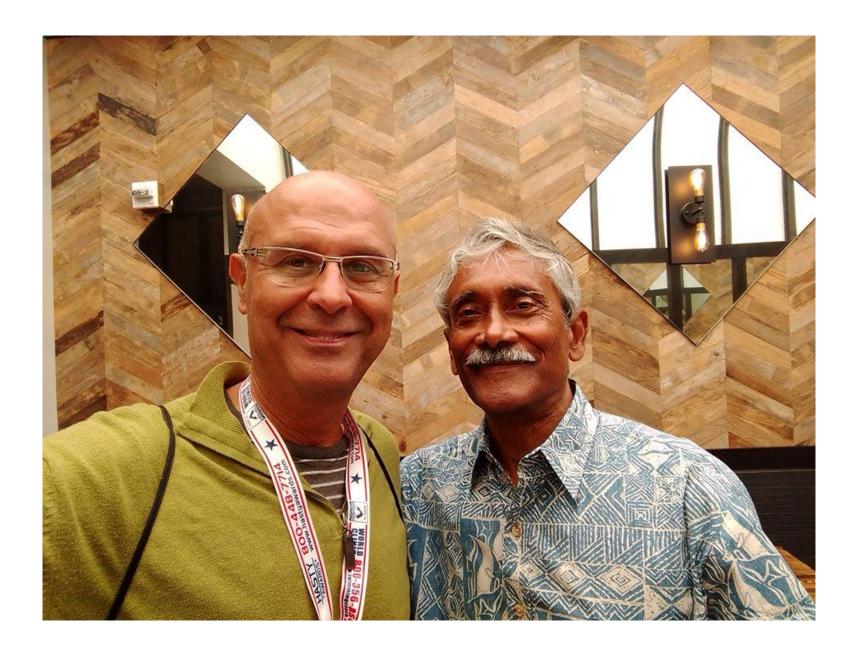
Basic FDD Stats last 16-24 months:

26 One site visits: 75 Meetings with projects: Air Quality challenges: 111 117 Equipment assistance: Save a Pool programming: 17 Programming assistance: 389 Plan & Design projects: 156 Renovation assistance: 43 New pool openings:

325 Conference attendees: 149 Pool certifications: Regional Build a Pool conferences: 14 Aquatic Industry Conventions & Clinics: **Professional Provider** referrals 356 **New contacts** 793 Drowning tracking 1825 times yr

JAN PRINS





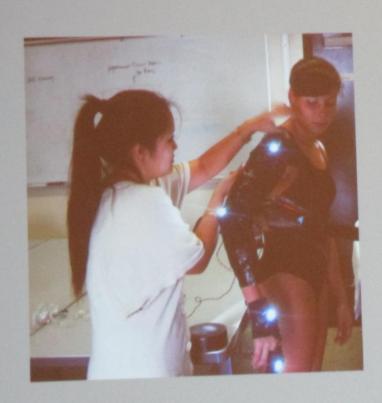
Worse than simple ignorance, naïve ideas about science lead people to make bad decisions with confidence. And in a world where many high-stakes issues boil down to science, this is clearly a problem.

Jason Castro. Scientific American Weekly Review 2012

Today's Lecture

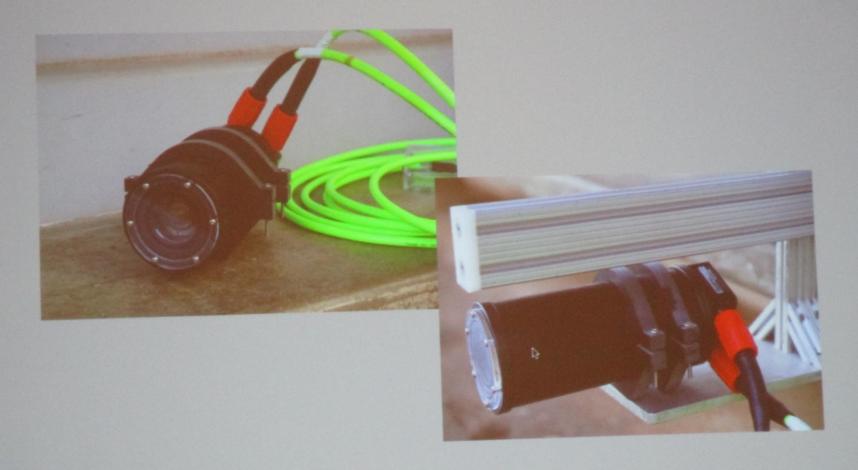
- Impulse & Velocity fluctuations in Backstroke, Breaststroke & Butterfly
- Breakouts The timing of the first pull and it's consequences
- Flutter Kick vs. Dolphin Kick during breakouts?
- Turns Selected areas of concern

To identify "limb segments"



Illuminated LED markers are used ... necessary for "automatic digitization"

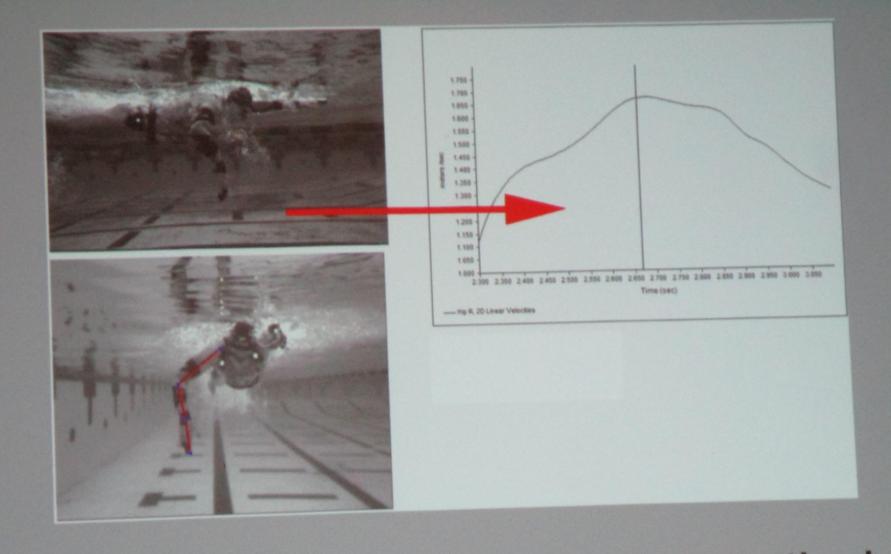
High-Speed Cameras





Motion Capture Software

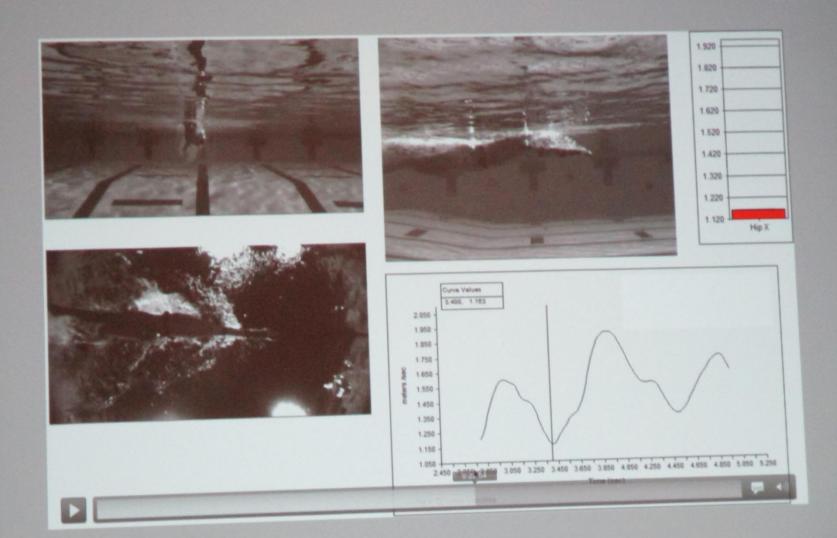
- Using the software we conduct "Multi-2D" motion analysis
- This allows us to combine video with synchronized graphs to observe and analyze the data



Velocity/Time graph: Moving vertical bar tracks progress

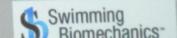
Primary object of the Report

- Is to show how <u>hip velocity</u> in the <u>longitudinal direction</u> is influenced by all other factors (pull & kick).
- The hip velocity is the final "dependent variable."



Impulse = Force x Time

- Large forces applied for a short time.
- 2. Relatively moderate to large forces applied for an extended time.



Reminder

 What the data produces are objective details of the consequences of different variations in stroke technique.



Backstroke

- Bi-phasic
- Increases in velocity is seen during two phases of the stroke cycle
- However, a single peak is also very common
 - Less efficient?



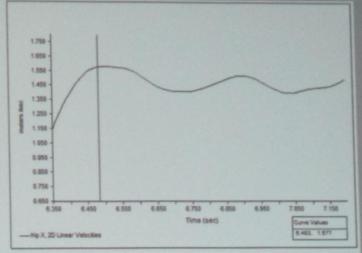
Hand & Palm Positions

 Regardless of the stroke angle at which the arm is moving, keep the palm of the hand facing directly toward the feet to maximize propulsion.

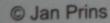
Bixler, Barry S. Resistance & propulsion. Handbook of Sports Medicine and Science: Swimming, Second Edition. 2005 Blackwell Science Ltd.

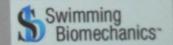






Approximately 34 to 38% of the duration of the u/w pull maintained at max velocity

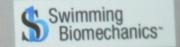






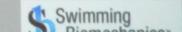
Average Backstroker's Profile

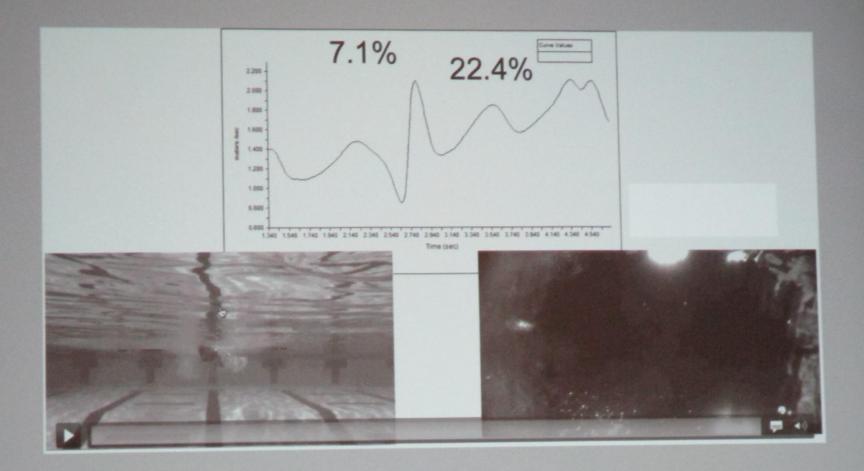
- Some bi-phasic effect
- Typically: <u>Surges</u> in maximum velocity, most often <u>during</u> the last third of the pull.



We see a reduction in velocity when:

- Elbows are held too straight starting with the "catch."
- Or elbows are extended too early hands drifting in towards the hips, generating little propulsion.





Early Elbow Extension: Percent of time each hand spends at peak hip velocity

© Jan Prins



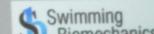
Breaststroke

- Bi-phasic
- Two velocity surges
- First phase during the pull
- Second phase during the kick
- Some overlap
- Values depend on relative contributions of the kick and pull



Four Areas of Focus

- Relative contribution of Pullvs. Kick
- 2. Percentage change in velocity during "draw-up" of feet/knees
- 3. Effect of a later draw-up?
- Importance of streamlining during glide phase.



- 1. Relative contribution of Pull vs. Kick
- During the "whole stroke" Velocity generated from the pull is greater than from the kick
- Majority tested showed similar differences
- Contrary to expectations?



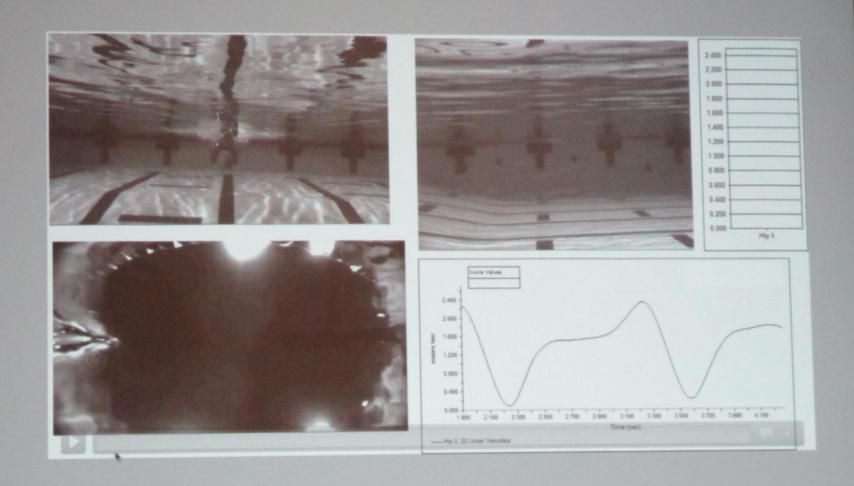
In the "isolated" Breaststroke Pull

 Maximum hip velocity occurs as the "in-sweep" nears completion. Possible explanation as to why the pull appears to be more effective than the kick?

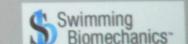
• The drop in velocity being so steep, the succeeding kick is not powerful enough to generate the same or higher overall hip velocity!

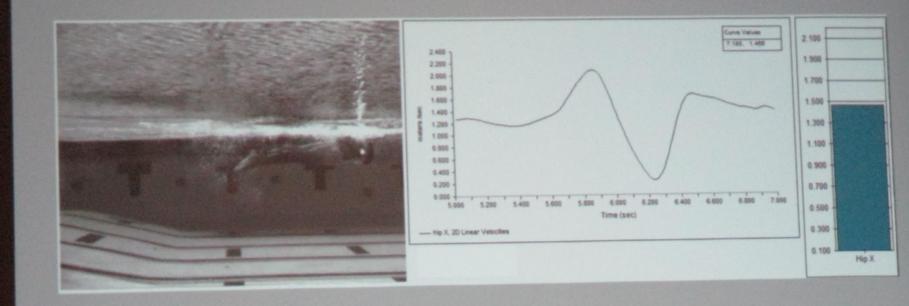
2. Where do we see a drop in the stroke cycle?

 Significant drop off in velocity coincides with the period after the pull when the feet are pulled up



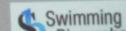
Drop-off in velocity: 90.2%





Drop-off in velocity: 87.9%

Michael Duderstadt. 100 Breaststroke NCAA Div. I Finalist.



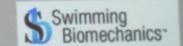
Breaststroke Velocity Fluctuations

	Pull Peak Velocity	Drop-off Velocity	Percentage Change
Swimmer 1	2.35	0.23	90.2
Duderstadt	2.08	0.24	87.9
Average (14 swimmers tested)	*****	*****	82 to 91%



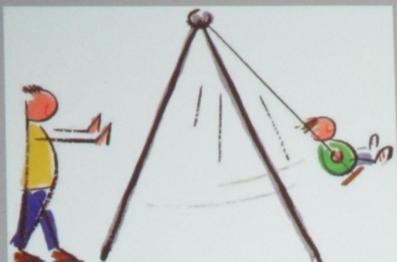
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Average (14 swimmers tested)	****	*****	82 to 91%



Biomechanical Implications

- Fluctuations in velocities are directly related to changes in "dynamic inertia"
- Changes from static to dynamic inertia are metabolically more demanding











3. Glide Phase in the Breaststroke

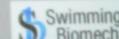
 The importance of holding a longitudinal "body-line" during the glide phase



Leisel Jones - Former world record

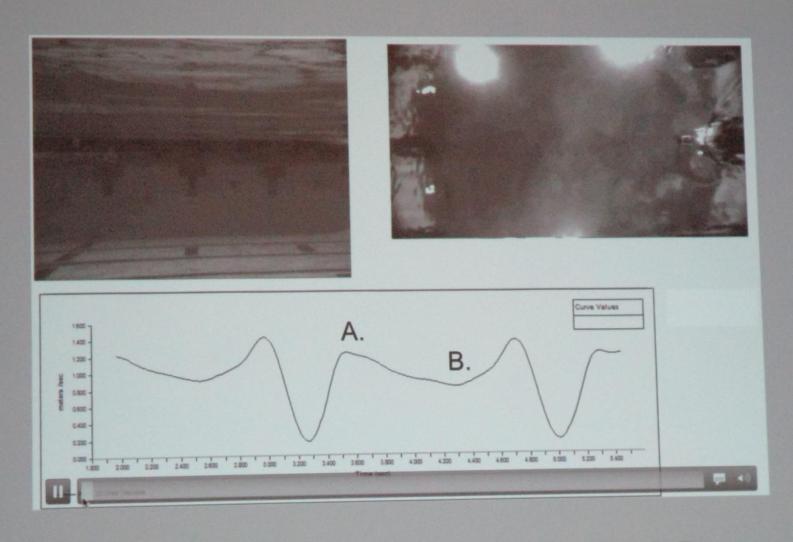


Leisel Jones – Former world record holder, 100m Breaststroke.



Factors affecting Glide Phase

- Holding glide for too long?
- Extending arms at a downward inclination



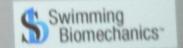
33% reduction in velocity between A. & B.

4. Timing of the Kick in Breaststroke

- Early vs. late "draw-up"
- How late do we wait before starting the kick?

Possible Advantages of a Late Draw-up

- Hands do not have to wait at end of "insweep" for initial draw-up to begin
- This induces quicker knee flexion and completion of the kick



Recent Study

Kinematic Analysis of Peak Velocities in the Breaststroke as a Function of the Timing of the Kick

Susan M. Ward¹, Jan H. Prins¹, Bret G. Freemyer¹

¹Department of Kinesiology and Rehabilitation Science Aquatic Biomechanics Research Laboratory

Will be published in next issue of the Journal of Swimming Research.



Butterfly

- Bi-phasic
- Combination of pull and second kick produce majority of impulse

Four areas of Focus

- 1. Peak Velocities in the stroke cycle
- 2. Can we increase pulling impulse?
- 3. Examine the extent of the drop in velocity during arm recovery
- 4. Result of bending knees on the "upbeat" of the dolphin kick
- Subtle but critical example of a stroke defect in Butterfly

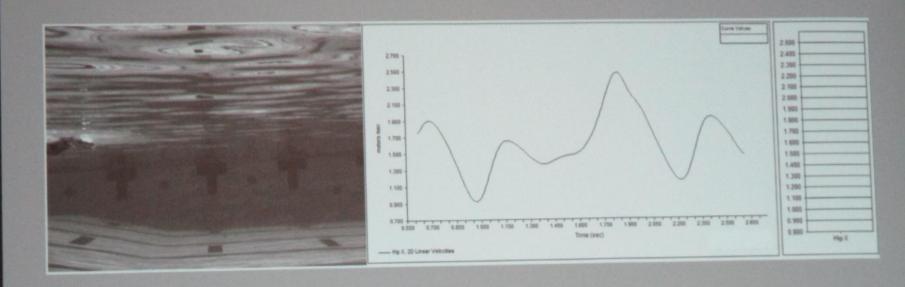
1. When do we see peak velocities during the Butterfly?

As expected:

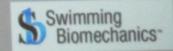
- The primary peak velocity occurs in the second half of the pull, as the pull nears final elbow extension.
- The second, occurs during the second kick



Typical Butterfly Velocity Profile



Michael Weiss: 400 IM record holder – World Univ. Games. USA 800 Free Relay – 2015 World Championships

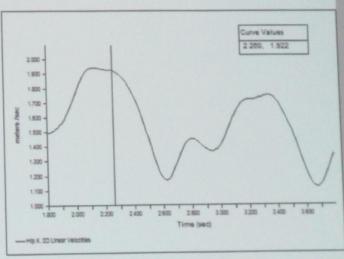


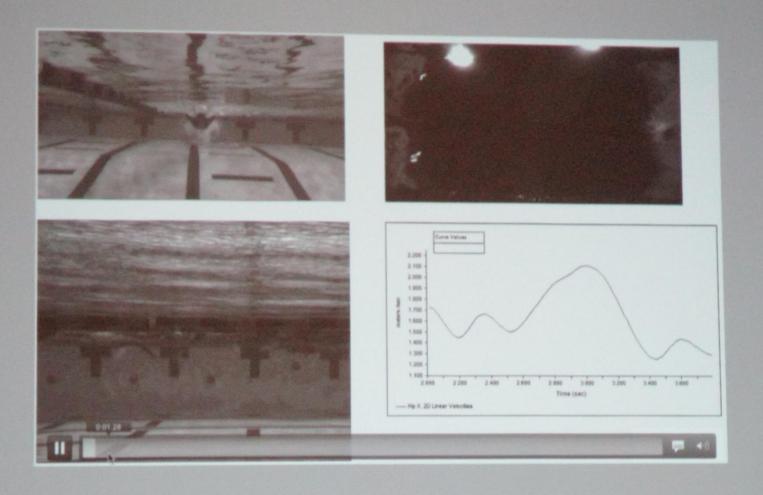
2. Can impulse in the Butterfly be improved?

- Can we apply more emphasis on feeling pressure on the hands earlier during the pull?
- Focus on "controlled acceleration"
 i.e. Avoid pushing back too fast.



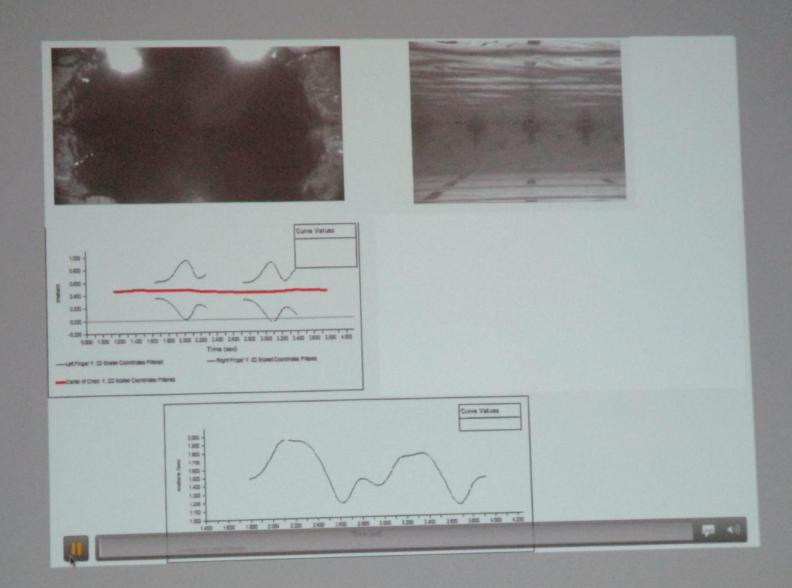


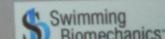




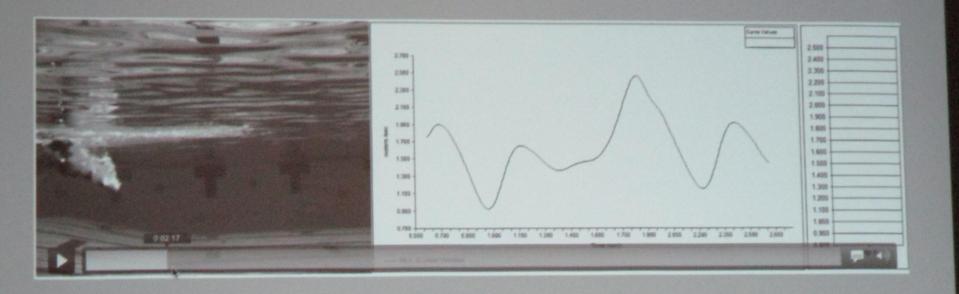
Example of increased impulse during pull.







- 3. Where do we see reduced velocities in the stroke cycle?
- We see a significant drop-off in hip velocity during arm recovery
- This coincides with the timing of the up-beat of first kick

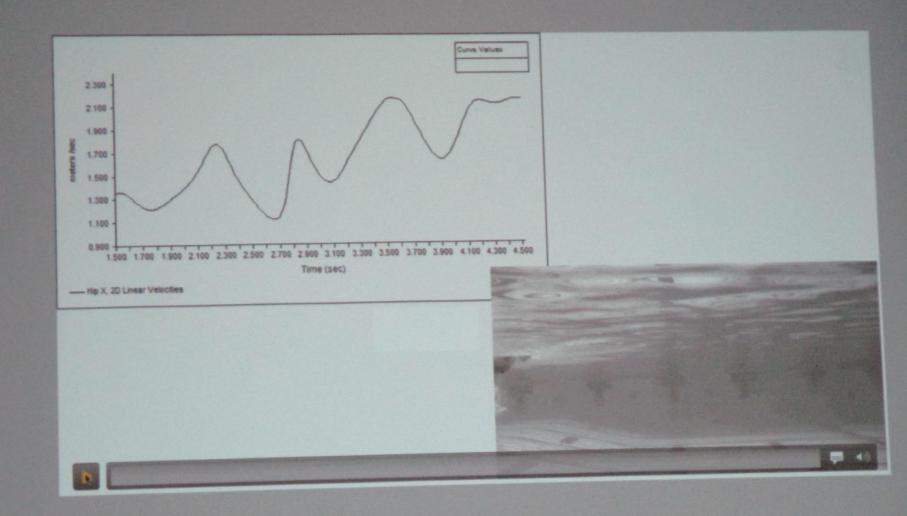


Percent drop-off in velocity: 41.1%

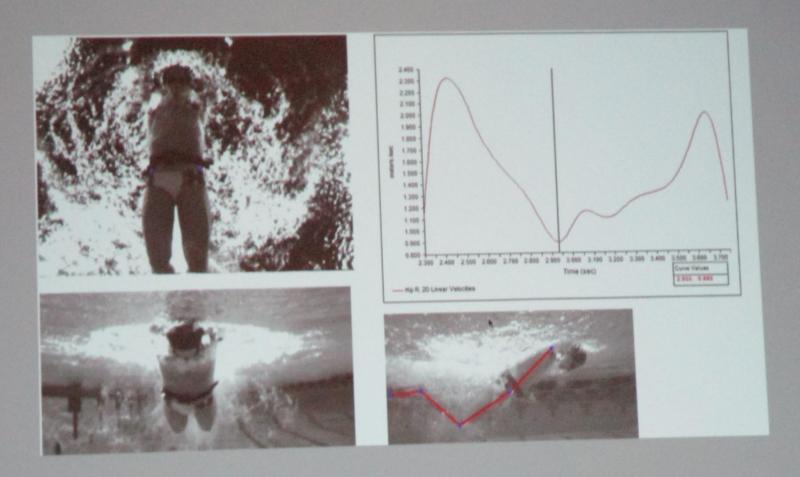
Butterfly Velocity Fluctuations

	Pull Peak Velocity	Drop-off Velocity	Percentage Change
Michael Weiss	2.48	1.46	41.1
Franziska Weider	1.95	1.16	40.5
Average (15 swimmers tested)	****	****	37 to 44%

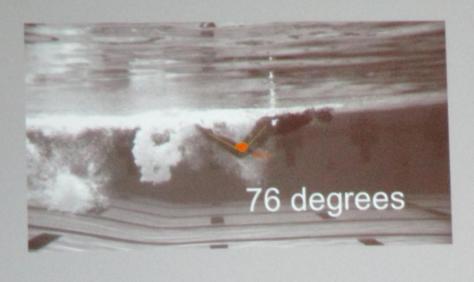
- 4. Do we need to be careful about bending the knees on the upbeat?
 - We observe an increased reduction in velocity as the angle of the knees increases during the upbeat

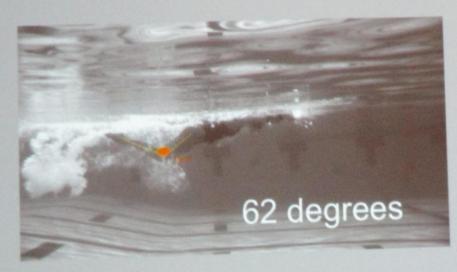


Swimmer 1: Knees bending on upbeat



Percent drop-off in velocity: 61.3%





For a 14 degree (12%) difference in knee flexion on the upbeat.

Velocity reduction went from 24% to 47%.

5. Subtle, but critical example of the loss of hold on the water

- During a regular Butterfly pull, the peak hip velocity curve should show an uninterrupted impulse
- However, in this example, we see a brief drop in velocity midway through the peak portion of the pull

