

The Need for Speed

Foil Delivery Systems

DRYA Wednesday Night Seminars

February 11, 2015

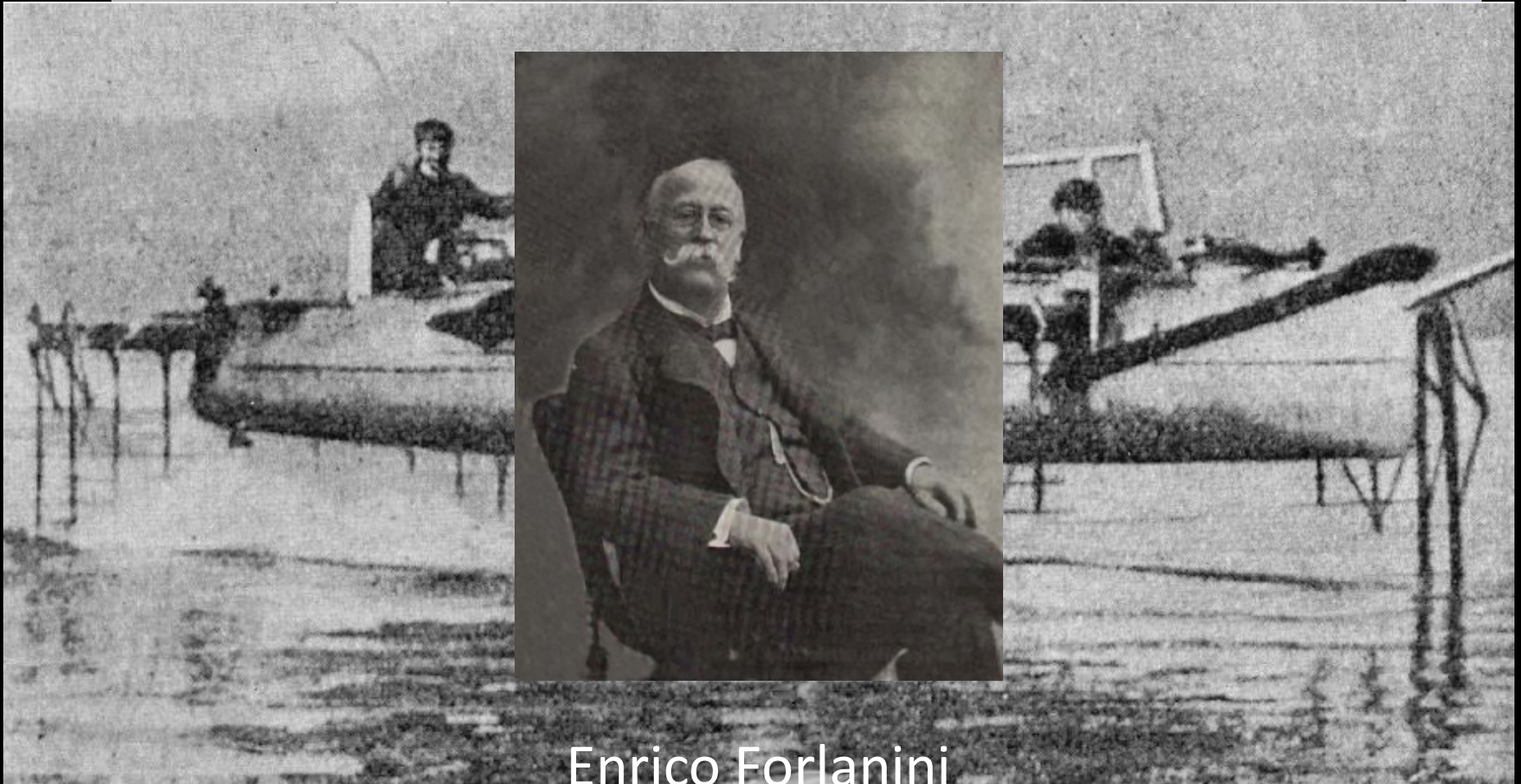
Grosse Pointe Yacht Club

Matt Bounds

**Dafna Brown and Rex Mitchell encounter Team
USA on America's Cup Finals Opening Day 2013**



Why go foiling?



Enrico Forlanini

even

he on this chart

Why the sudden interest?

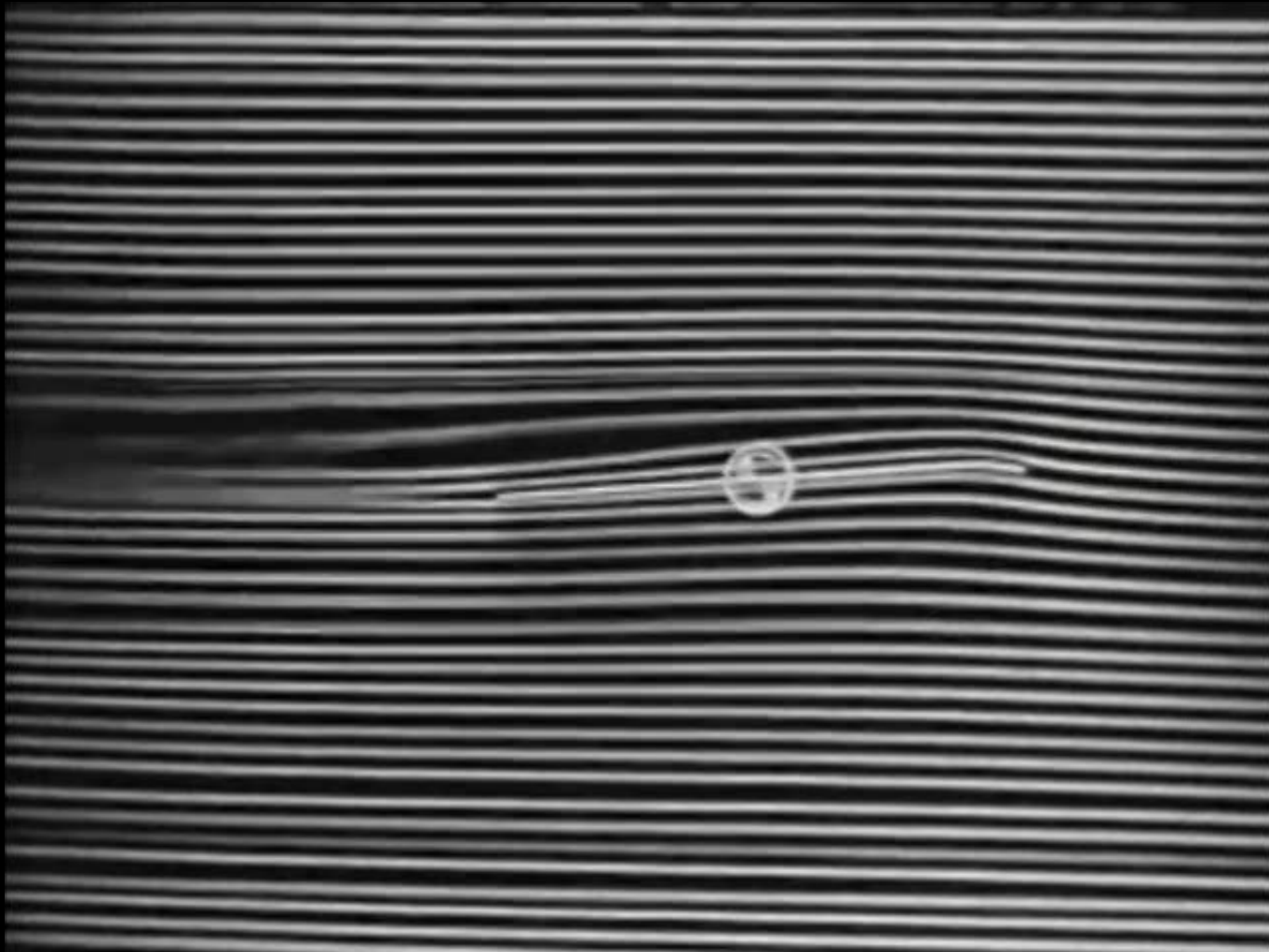


www.AlpineFoil.com - D.Chaboud

There's no free lunch



Basic Airfoils



Wing Sails

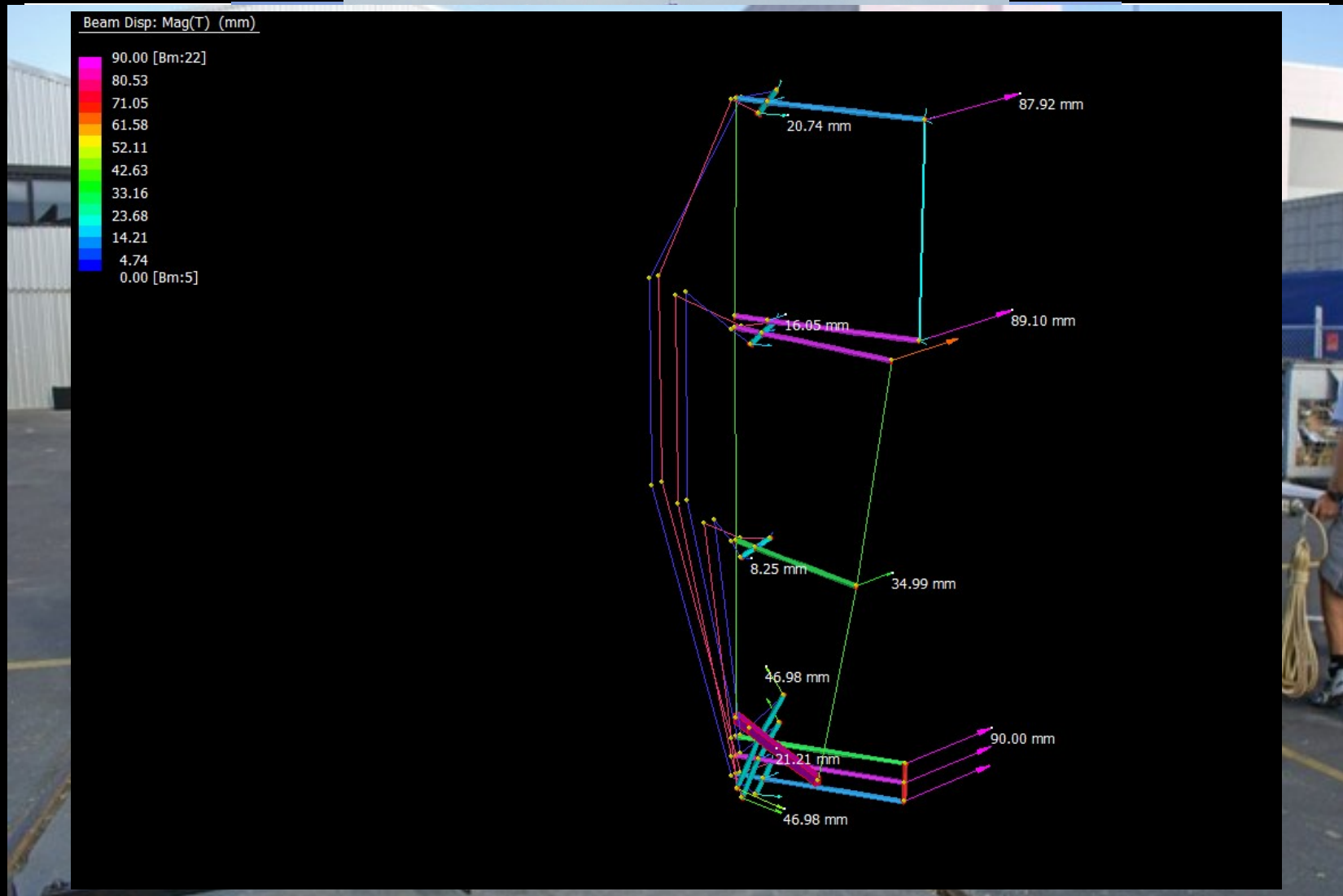


Photo: Clive Wright Markup: Jack Griffin

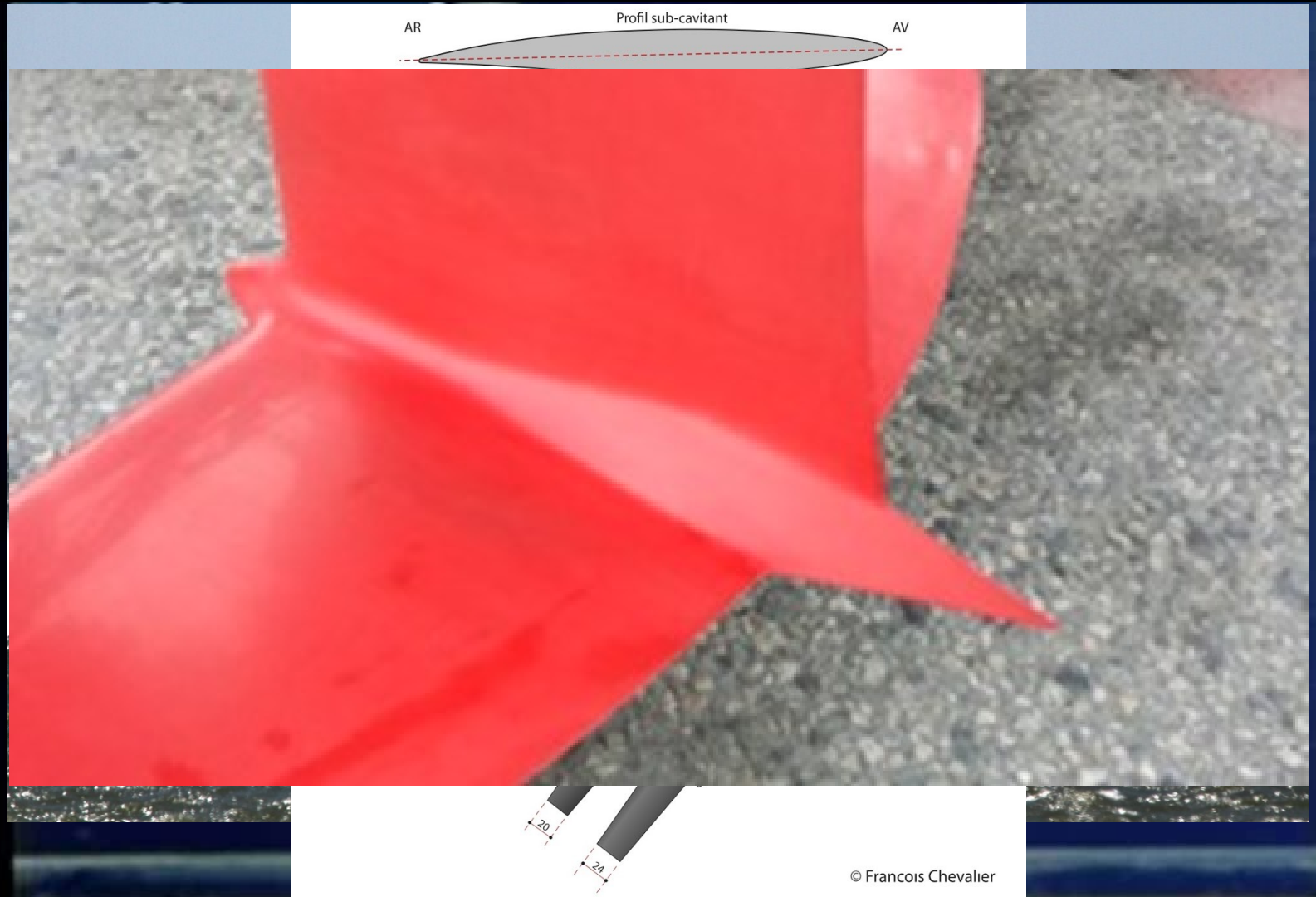
Foil Controls

UPWIND SAILING				
Boat Speed	DBD RAKE in Deg. (positive for LE up)	Extension DBD above deck distance DBD above deck (in mm)	Elevator rake in Deg. (positive for LE up)	Sailing Mode
5 knots	-2	Full down	0	NF
10 knots	0 - 1	120	0	NF
10-14 knots	5,5	420	1	FF
14-16 knots	5	520	0,5	FF
16+ knots	0 - 4	520	0,5	FF

FF = Full Foiling NF = Non Foiling / semi foiling

WIDE SAILED ANGLES -- TWA +80 deg.				
Boat Speed	DBD RAKE in Deg. (positive for LE up)	Extension DBD above deck distance DBD above deck (in mm)	Elevator rake in Deg. (positive for LE up)	Mode
5 knots	-2	520	0	NF
10 knots	1	520	0	NF
10-14 knots	4,5	520	1	FF
14-20 knots	4 → 3	520	0,5	FF
20-25 knots	3 → 2	520	0,5	FF
25-30 knots	1,5	520	0,5	FF
30+ knots	0,5	520	0	FF

Cavitation



Foilers for Regular People



Foilers for Lucky People



Foilers for Really Lucky People



Why "Foil Delivery Systems?"

