34th Annual Convention and Technical Symposium Fess Parker's DoubleTree Resort, Santa Barbara, CA

Sunday, October 16, 2005

5:00 -7:00 pm Early-arrival reception at the Lilleys' home, 741 Cathedral Pointe Lane

Turn right out of Fess Parker's DoubleTree Resort to Cabrillo Blvd. Turn right on Cabrillo and right again on Garden Street, to US 101 <u>North</u>. Travel 8 miles on 101 to the Patterson Avenue exit. Turn north on Patterson Avenue (right, toward the mountains) and travel ½ mile. Turn left into Cathedral Pointe, and turn right on Cathedral Pointe Lane after the stop sign. Number 741 is on the right. Lost? Call 805-967-9394.

Monday, October 17, 2005

9:00 amGAUSS Standardization Committee Meeting – Vineyard Board Room2:00 pm134th ILA Board of Directors Meeting – Vineyard Board Room6:00 – 8:00 pmIcebreaker Reception – Rotunda, 3rd floor – Note: part of the reception event is out-of-doors; wear layers
for comfort. Temperatures in the mid-50s are not uncommon in the evenings. The view is well worth it!

Tuesday, October 18 – General Sessions - All general sessions are in the San Rafael Ballroom

8:00 - 8:30 am Welcome Remarks and Keynote Address

Robert Lilley, Conference Chairman Gregory Johnson, Technical Chairman Langhorne Bond, ILA Vice-President and President-Elect

8:30 -10:00 am Session 1 – Status Reports and Updates – Chair: Robert Lilley, Northrop-Grumman

2005 RTCM Conference: Loran summary, Erik Johannessen, Megapulse The National Boating Federation: Loran Update, Margot Brown, Executive Director (invited) The Institute of Navigation, James Doherty, incoming President The European Navigation Plan, and UK News, Paul Williams, Trinity House The US Coast Guard LSU: Our World of Work, CDR Christopher Nichols, C.O. The US FAA e- Loran program: A Quick-Look, Mitchell Narins, US Federal Aviation Administration Loran and The Royal Institute of Navigation, Prof. David Last, incoming RIN President

10:30 -12:00 n Session 2 – Programs and Plans – Chair: William Roland, PVT Associates

Status of FERNS, Seung-Gi Gug, Korea Maritime University

Status of Loran in Europe and France, Jacques Manchard, Dir. Lighthouses and Buoys Div., Directorate for Maritime Affairs and Seafarers, Ministry of Infrastructures, Transport, Housing, Tourism and the Sea; France

Road to a Stronger Business Case for eLoran, Durk van Willigen, Reelektronika *The US FAA e-Loran Program*, Mitchell Narins, US Federal Aviation Administration

12:00 - 1:30 pm Lunch – Sierra Madre North

Speaker: Michael Edwards, Vice President; Venoco, Inc.

1:30 - 3:00 pm Session 3 – Loran System Management – Chair: LT Anthony Hawes, USCG

U.S. Loran Operations FY 2005 - LT James Bailey, USCG Navigation Center Introduction to the Loran Integrated Command and Operations (LICOS) Project LT Ronald Wright, USCG Loran Support Unit Tools to Effectively Manage Loran System Equipment - LCDR James Betz, USCG Loran Support Unit Introduction to the Loran Enhanced Monitor System (LEMS) Project Wayne Wawrzyniak, USCG Loran Support Unit 3:30 – 5:00 pm Session 4 – Timing, Differential Loran – Chair: Durk van Willigen, Reelektronika

Modernized LORAN-C Timing Test Bed Status and Results

LTJG Kevin Shmihluk, USCG LSU, Tom Celano, Casey Biggs; Timing Solutions Corp., Benjamin Peterson, PIG The Potential Role of Enhanced LORAN-C in the National Time and Frequency Infrastructure Michael A. Lombardi, NIST; Thomas P. Celano, Timing Solutions Corp.; Edward D. Powers, USNO Implementation of a UTC Service on the NELS Eurofix Transmitters

Arthur Helwig, Gerard Offermans, Rene Kellenbach and Durk van Willigen; Reelektronika

eLoran for Time and Frequency Applications

Linn Roth, Paul Schick, Dean Gervasi, Eric Wiley, and Chad Schweitzer; Locus Inc.

6:00 -8:00 pm - Santa Barbara Tours de Arte Reception – Carpool Transportation; Maps will be provided

Wednesday, October 19 – General Sessions - All general sessions are in the San Rafael Ballroom

8:30 -10:00 am Session 5 – Signals, Propagation – Chair: Paul Williams, Trinity House

Early Skywave Detection Network: Preliminary Design and Analysis Sherman Lo, Per Enge; Stanford University, Peter Morris; Raytheon, Inc. Loran-C Additional Secondary Factors: Implications for Meeting Required Navigation Performance (RNP) 0.3

David W. Diggle, Curtis Cutright; Ohio University, G. Linn Roth, Chad Schweitzer; Locus Inc., Mitchell Narins, US FAA

Airport ASF Mapping Methodology

Gregory Johnson, Alion Science & Technology; Peter Swaszek, Univ. Rhode Island; CAPT Richard Hartnett, USCG Academy

Altitude Effect on ASFs - Gregory Johnson, Alion Science & Technology; Peter Swaszek, Univ. Rhode Island; CAPT Richard Hartnett, USCG Academy

10:30 -12:00 n Session 6 – Interference, Noise – Chair: David Diggle, Ohio University

Analysis of the Effects of Atmospheric Noise on Loran-C

Curtis Cutright, Jonathon Sayre, Frank van Graas; Ohio University Significant Space Weather in 2005 - Joe Kunches, NOAA Space Environment Laboratory Atmospheric Noise Measurement and Mitigation - Lee Boyce, Sherman Lo, J. David Powell, Per Enge; Stanford University

Noise - From a Receiver Perspective - Wouter Pelgrum, Reelektronika

12:00 - 1:30 pm Lunch – Sierra Madre North

ILA Annual Membership Meeting – Langhorne Bond Remarks - from former ILA President John D. Illgen, representing Northrop-Grumman Simulation

1:30 - 3:00 pm Session 7: eLoran Applications – Chair: John Kirk, Northrop-Grumman

The Saudi Positioning System - Measurement Results Arthur Helwig, Gerard Offermans; Reelektronika, Brian Goodsir; Saudi Ports Authority Performance Analysis of an Integrated GPS/Loran-C Tracking System James Carroll, Henry Wychorski, and David Phinney; Volpe National Transportation Systems Center Loran-C Trials in the United Kingdom Paul Williams, Trinity House; Dean Furber, General Lighthouse Authorities System Integration for Enhanced Loran – LT Anthony Hawes, USCG; Benjamin Peterson, and Kenneth Dykstra; Peterson Integrated Geopositioning (PIG)

3:30 - 5:00 pm Session 8: Receiver Development – Chair: Gregory Johnson, Alion Science & Technology

Getting aHead(ing) with eLoran - Erik Johannessen, Megapulse GPS/WAAS/Loran Prototype System - Chad Schweitzer, Paul Schick, Dean Gervasi, Eric Wiley, and Linn Roth, Locus, Inc. (Integrated GPS/eLoran Receiver) - James Davis, Free Flight Systems (invited)

- 5:00 5:30 pm 135th ILA Board of Directors Meeting *Vineyard Board Room*
- 6:30 7:00 pm Reception The Reagan Patio
- 7:00 Banquet The Reagan Room ILA Awards Presentation Speaker: Neal Graffy, Santa Barbara History Consortium; "Why Santa Barbara?"