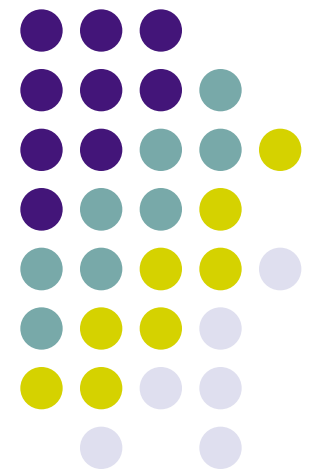


# Communication Theory Technical Committee ICC June 2013

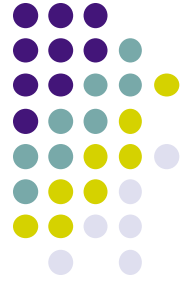
*Chair: Angel Lozano, UPF, Spain*

*Vice-Chair: Matthew Valenti, West Virginia University, USA*

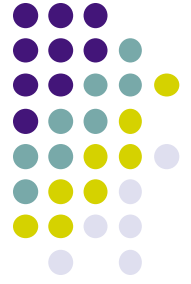
*Secretary: Erik Perrins, University of Kansas, USA*



# Agenda



1. Brief Introductions (going around the room)
2. Approval of Minutes from 2012 IEEE GC meeting (available at <http://committees.comsoc.org/comt/>)
3. Chair Remarks
4. Conference Reports:
  - CT Symposium, ICC 2013 (Velio Tralli)
  - CT Symposium, GC 2013 (Matthew Valenti)
  - CT Symposium, ICC 2014 (Fulvio Babich)
5. Workshop Reports:
  - CTW 2013 (David Gesbert)
  - CTW 2014 (Leszek Szczecinski)
  - CTW 2015 Proposal (Hamid Jafarkhani / Syed Jafar)
6. Other Items



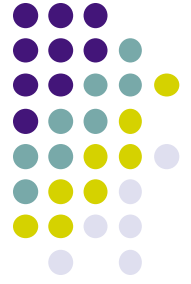
# 1. INTRODUCTIONS



## **2. APPROVAL OF MINUTES FROM 2012 IEEE GC MEETING**



# 3. CHAIR REMARKS



Thanks Robert..!



*Chair: **Angel Lozano**, UPF, Spain*

*Vice-Chair: **Matthew Valenti**, West Virginia University, USA*

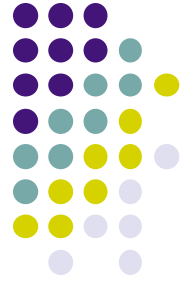
*Secretary: **Erik Perrins**, University of Kansas, USA*



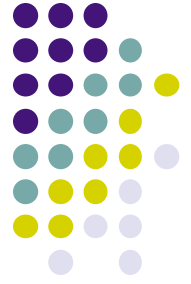


- TC Audits
  - TAC currently auditing all TCs
  - Periodic process
  - Detailed report submitted on behalf of CTTC, positive evaluation expected
  - Recurring issue: CTW listed as underperforming. (On basis of financial rather than technical arguments.)
  - We're making vigorous objections





- CTTC Award Committee
  - Matthew Valenti, new chair
  - Committee being reconstituted
  - New awards expected for GC'13.



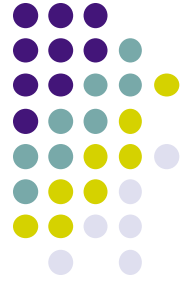
# Awards

- CTTC gives out 2 awards:
  - Technical Achievement Award
  - Outstanding Service Award
- Nominations due on June 30<sup>th</sup>
  - A short sentence on the outstanding contribution and one page of supporting material.
- Usually awarded at Globecom
  - Following ICC or CTW, by request.
- Awards committee consists of 5 members

# Technical Achievement Award



- Recognizes members of the CTTC who have done ***outstanding work in communication theory*** and have achieved a ***high degree of visibility in the field.***
- Past recipients:
  - 2012: Larry Milstein
  - 2011: Sergio Benedetto
  - 2010: Gerard Foschini and Dariush Divsalar

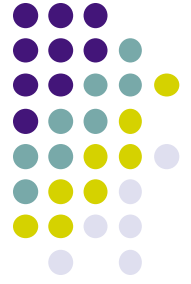


# Outstanding Service Award

- Recognizes members of the CTTC who have a ***distinguished record of service to the CTTC community***, including CTTC symposia and workshop organization, leadership roles within the CTTC, and promoting CTTC activities and interests in the broader research community.
- Past recipients:
  - 2012: Costas Georghiadis
  - 2011: Len Cimini
  - 2010: Richard Gitlin and Larry Milstein
  - 2009: Ray Pickholtz and Zeke Bar-Ness



- Best readings
  - ComSoc is creating “best readings” on hot topics
  - Links to papers with short descriptions
  - Any interest please contact Angel/Matt/Erik
- Interest in chairing an ICC/GC symposium?
  - Volunteers sought
  - Waiting list
  - Contact Angel/Matt/Erik



## **4. CONFERENCE REPORTS**

**CT SYMPOSIUM**

**ICC 2013 (VELIO TRALLI)**



When: 09.06.2013 – 13.06.2013

Where: *Budapest - Hungary*

Symposium/Track: *Communication Theory Symposium*

Co-chairs: *David Gesbert, Angel Lozano, Sennur Ulukus, Velio Tralli*

Total Submissions: 193

Acceptance Rate (final): 39%

#TPC members: 101

Avg. number of reviews/paper = 4

Rebuttal process *N*

Keynote speech: *Gerhard P. Fettweis, Erik Dahlman, Walter Goldenist, Thomas Wiegand, Peter Winzer*



## **4. CONFERENCE REPORTS**

**CT SYMPOSIUM**

**GC 2013 (MATTHEW VALENTI)**





GC'13 Communication Theory Symposium Report.

Co-Chairs (Nominating TC in parenthesis):

Nallanathan Arumugam, King's College London, UK (SPCE,RC)

Sang Wu Kim, Iowa State University, USA (CT)

Lian Zhao, Ryerson University, Canada (WC)

Submissions: 136

Review process:

127 TPC members, each paper allocated to 4 reviewers

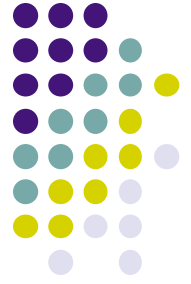
51 papers with 3 reviews, 84 papers with 4 reviews, 1 with 5 reviews

Score statistics:

59 @ 3.4 or higher, 51 @ 3.5 or higher, 41 @ 3.6 or higher

Acceptances: Allocated 50, for a 36.7% acceptance rate.

Nominally 10 sessions of 5 papers, with possibility that some get presented as posters.



## **4. CONFERENCE REPORTS**

**CT SYMPOSIUM**

**ICC 2014 (FULVIO BABICH)**


# ICC 2014



- When: 16 - 20 June 2014      Where: Sydney, Australia
- Communication Theory Symposium
- Co-chairs:
  - Fulvio Babich, Univ. of Trieste, Italy ,
  - Bechir Hamdaoui, Oregon State Univ, USA,
  - Huaiyu Dai, North Carolina State Univ. USA.
- Paper Submission deadline: 15 September 2013
- Expected TPC members: 150-180 (many pre-invited)



# Technical Program Matrix (including Initial IF&E Program Matrix)

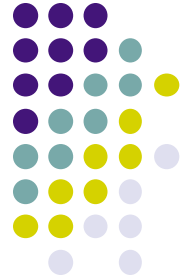
ICC 2014 logo		<b>Conference Program</b> <b>IEEE International Conference on Communications (ICC 2014)</b> <b>Conference Theme</b> <b>Sydney, Australia, 16-20 June, 2014</b>						 <b>IEEE COMMUNICATIONS SOCIETY</b>		
Time/Day	Monday		Tuesday		Wednesday		Thursday		Friday	
07:00-08:00			Speaker's Breakfast		Speaker's Breakfast		Speaker's Breakfast			
08:00-10:30	AM Tutorials	AM Workshops	Welcome & Opening Ceremony Keynotes A&B		Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	AM Tutorials	AM Workshops
10:30-11:00	Coffee Break		Coffee Break		Coffee Break		Coffee Break		Coffee Break	
11:00-12:30	AM Tutorials	AM Workshops	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Keynote C Technical Plenary A Industry Plenary B		Keynote D Technical Plenary B Industry Plenary B		AM Tutorials	AM Workshops
12:30-14:00	Lunch Break		Awards Luncheon		Lunch Break		Lunch Break		Lunch Break	
14:00-15:30	PM Tutorials	PM Workshops	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	PM Tutorials	PM Workshops
15:30-16:00	Coffee Break		Coffee Break		Coffee Break		Coffee Break		Coffee Break	
16:00-17:30	PM Tutorials	PM Workshops	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	Technical Symposia (200S + 4PS)	Industry Forums (3 sessions)	PM Tutorials	PM Workshops
17:30-18:00										
18:00-19:00	Program Highlights Show				VIP Reception					
19:00-22:00	Welcome Reception (Exhibition Official Opening)		Patrons Dinner Event		Conference Banquet		Organizers Recognition Dinner			



# Technical Program Matrix

## Program Summary:

OS: Oral Session	180 x 90 min sessions: to accommodate max 900 oral paper presentations - 20 parallel OS
PS: Poster Session	36 x 15 posters sessions: to accommodate max 540 poster paper presentations - 4 parallel PS
<b>Grand Total Technical Symposia Papers: Max 1440 papers</b>	
Tutorials	12 Half-Day Tutorials on Monday and Friday
Workshops	20 Half-Day (or eq. FD) Workshops on Monday and Friday
Industry Forum Sessions	9 x 90 min panels on Tue-Wed-Thurs - 3 parallel IF sessions 2 regular presentation style, 1 demo style
Keynote Talks	Space for 4 Keynote talks on Tue-Wed-Thurs Two from Industry, Two from Academia
Plenary Talks	Space for 4 Plenary talks, Wed-Thurs, One from Academia, One from Industry each day



# **5. WORKSHOP REPORTS**

## **CTW 2013 (DAVID GESBERT)**



# **5. WORKSHOP REPORTS**

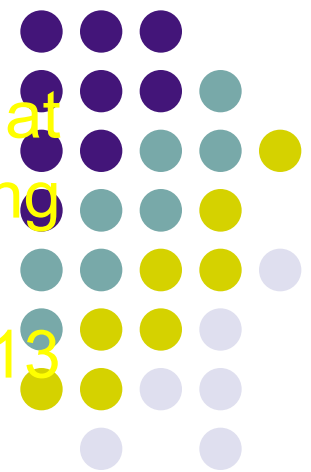
**CTW 2014 (LESZEK  
SZCZECINSKI)**

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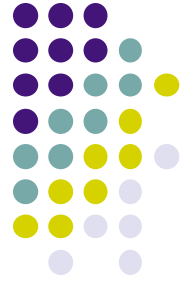
# CTW 2014

Presented at  
CTTC meeting

June 10, 2013

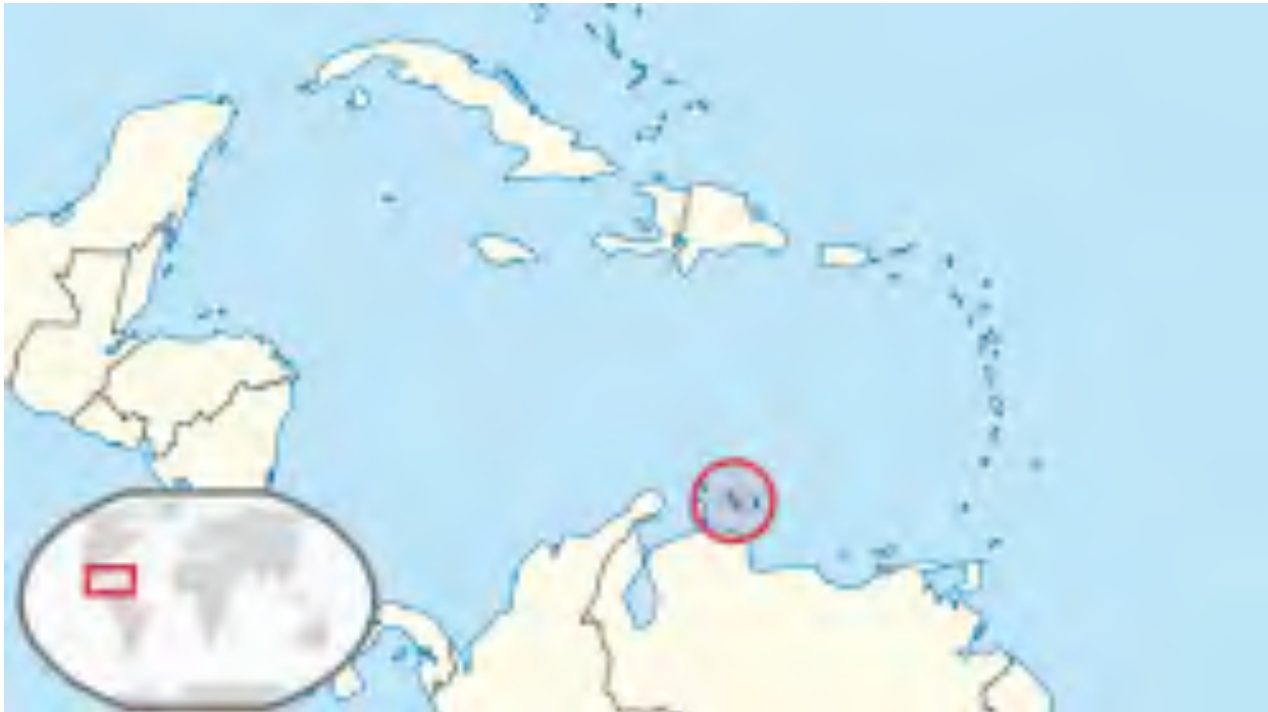


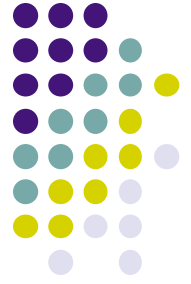




# Location

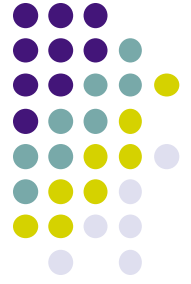
Curaçao (Netherlands Antilles)





# Why Curaçao?

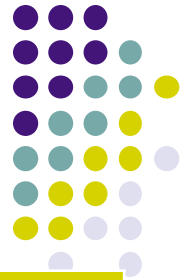
- Subtropical climate; outside the hurricane belt; temperatures in May: 25-35 C (78-95 F)
- Medium-range prices
- High living standard
- Mix of cultures and history  
(Willemstad :UNESCO World Heritage city)
- Perfect for beach and water sports, snorkeling, diving; + meet the dolphins



# Dates

- **25-28 May 2014**
- Closest conferences
  - Before: VTC Spring 2014 18-21 May 2014 (was 11-14 May 2014)
  - After: ICC 10-14 June 2014 (16-20 June 2014)
- Not overlapping with
  - ICASSP, ISIT, ITW, SPAWC

# Travel to Curaçao (CUR)



Origin	Stops	Flight Time	'Optimized' \$\$\$
<b>Miami</b>	<b>0</b>	<b>3h</b>	<b>350\$</b>
<b>Amsterdam</b>	<b>0</b>	<b>9h</b>	<b>900\$</b>
Edmonton	2	11h	1000\$
Toronto/Montreal	1	8h	700\$
Houston	1	7h	550\$
San Francisco	1	11h	700\$
New York	1	7h	500\$
Paris	1	16h,	1250\$
London	1	14h	1200\$
Frankfurt	2	19h	1300\$
Tokyo	2	27h	3300\$



# Organizing Committee

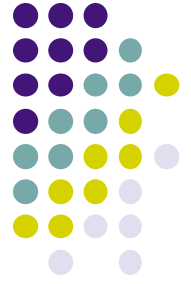
- General/Finance Chair:
  - Leszek Szczecinski, INRS
- Technical Program Co-Chairs
  - Witold Krzymien (University of Alberta)
  - Wei Yu (University of Toronto)
- Publicity Co-Chairs
  - Alex Alvarado (University of Cambridge)
  - Natasha Devroye (University of Illinois)
- Advisory Board
  - Jeff Andrews (University of Texas at Austin)
  - David Gesbert (EURECOM)
  - Robert Heath (University of Texas at Austin)
  - Michael Honig (Northwestern University)
  - Anthony CK Soong (Huawei)
  - Reinaldo Valenzuela (Alcatel – Lucent)

# Venue: Marriott Beach Resort/ Casino



- Close to Willemstad, 15 mins to the airport, 4 stars at [tripadvisor.com](https://www.tripadvisor.com), private beach, reef @ 20m
- rooms \$166-\$240+/nt (incl. tx+tips)





# Technical Program

- Interference management in heterogeneous cellular networks
- Network MIMO and massive MIMO
- Optimized radio resource management
- Network information theory and network coding
- Emerging areas (coherent optics, bio-inspired comm. theory, machine learning, smart grid, cognitive radio, etc)



# Some pictures



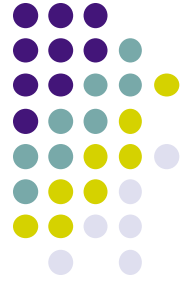


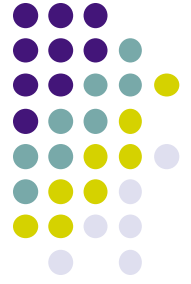


# Some pictures



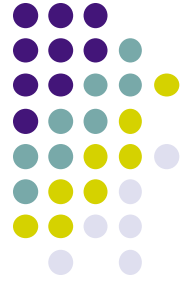
# Some pictures





# Comments to

- Leszek Szczecinski, <leszek@emt.inrs.ca>
- Witold Krzymien, <wak@ece.ualberta.ca>
- Wei Yu, <weiyu@comm.utoronto.ca>



## **5. WORKSHOP REPORTS**

### **CTW 2015 PROPOSAL (HAMID JAFARKHANI / SYED JAFAR)**



## 6. OTHER ITEMS