

ANNUAL BUSINESS MEETING OF THE TRANSPORTATION SCIENCE & LOGISTICS SOCIETY

San Francisco, California
November 10, 2014

Agenda



Transportation Science
and Logistics Society

- Welcome and overview of major TSL initiatives (Grazia Speranza)
- New Editor-in-Chief of Transportation Science (Warren Powell)
- TSL Secretary/Treasurer report (Ann Campbell)
- Membership and communication report (Mike Hewitt)
- Awards:
 - TSL Dissertation Prize (Thomas Vossen)
 - TSL Best Paper Award (Rajesh Ganesan)
- TSL 2014 Cluster Chair report (Irina Dolinskaya)
- 2014 TSL workshop organized by Theo Crainic, Mike hewitt, and Maciek Nowak (Mike Hewitt)
- 2015 TSL workshop (Jan Fabian Ehmke)
- Report from Transportation AE of Operations Research (Anton Kleywegt)
- Report from EIC of Transportation Science (Michel Gendreau)
- Election results (Grazia Speranza)
- 2015 TSL initiatives (Barrett Thomas)
- Conclusions (Grazia Speranza)

WELCOME AND OVERVIEW OF MAJOR TSL INITIATIVES

Grazia Speranza
University of Brescia

Overview



Transportation Science
and Logistics Society

Officers:

Laurie Garrow – Past President

Thomas Barrett – President Elect

Ann Campbell – Secretary/Treasurer

Mike Hewitt – Communications Chair

International liaisons:

Harilaos N. Psaraftis – Europe and Africa

Andres Medaglia – Americas

Mark Hickman – Asia, Australia, and New Zealand

Overview



Transportation Science
and Logistics Society

Special Interest Groups (SIGs):

Freight Transportation and Logistics (Tom Van Woensel)

Urban Transportation Planning and Modeling (Song Gao)

Facility Logistics (Sadan Kulturel-Konak)

Intelligent Transportation Systems (Steve Boyles)

Air Transportation (Thomas Vossen)

Cluster chair: Irina Dolinskaya

Newsletter editor: Justin C. Goodson

Overview

- Simplified revenue sharing agreement with the Aviation Applications Section (AAS) of INFORMS (thanks, Laurie!)
- Committee to investigate TSL Fellows (Warren Powell)
- ITS SIG confirms Best Presentation Award
- New format of TSL Workshops
- Survey about TSL Conference
-and a lot more

NEW EDITOR-IN-CHIEF OF TRANSPORTATION SCIENCE

Warren Powell
Princeton University



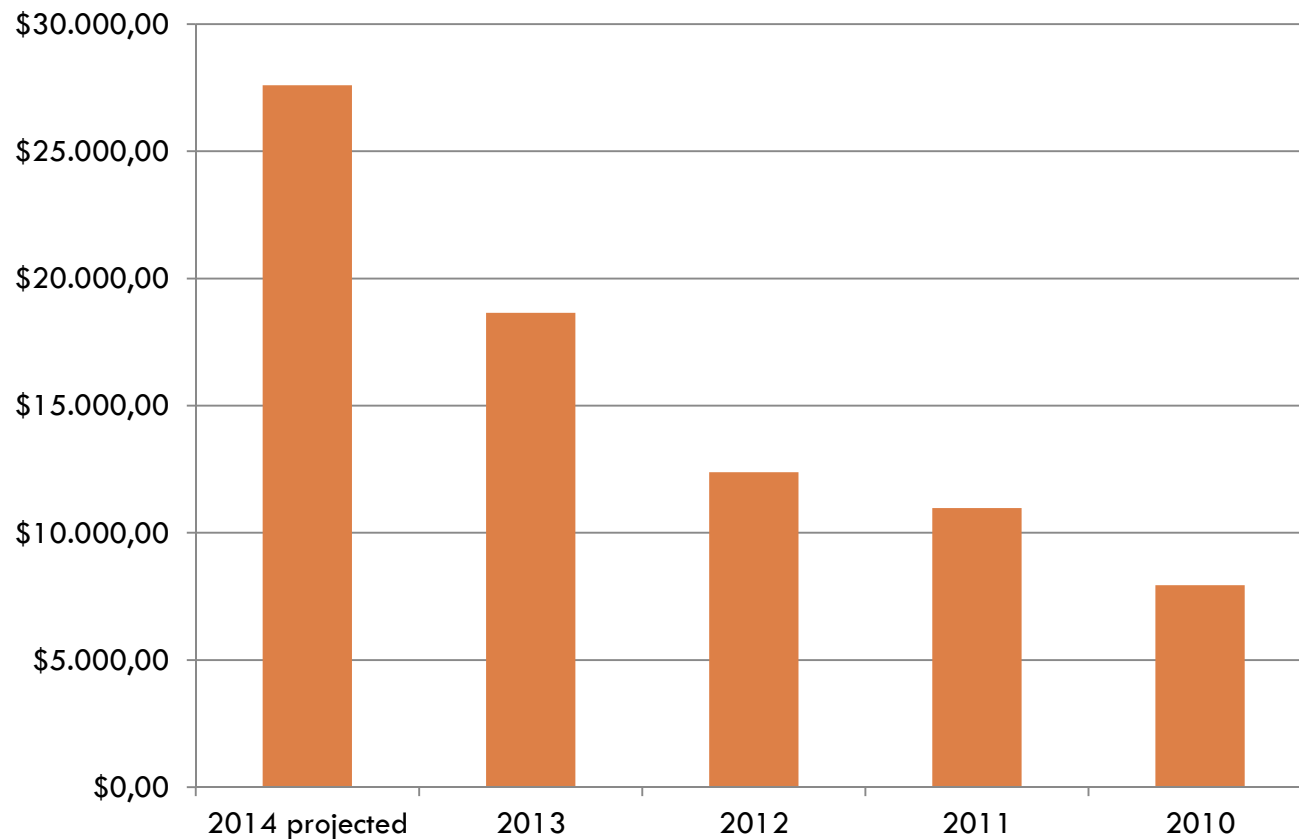
Martin Savelsbergh
Georgia Tech

SECRETARY/TREASURER REPORT

Ann Campbell
University of Iowa

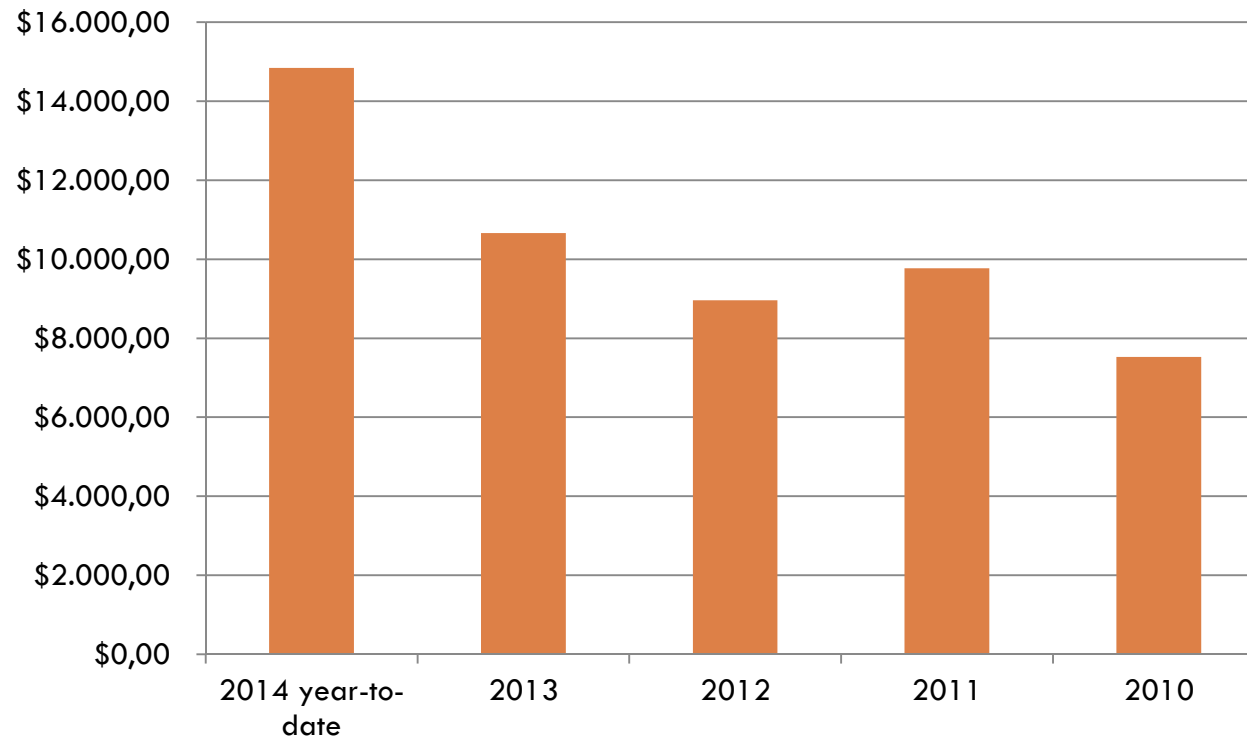
Balance

□ Growing !



Dues revenue is up

- We increased the dues for all members (including students)



Workshops have been profitable!



- 2013 Asilomar workshop

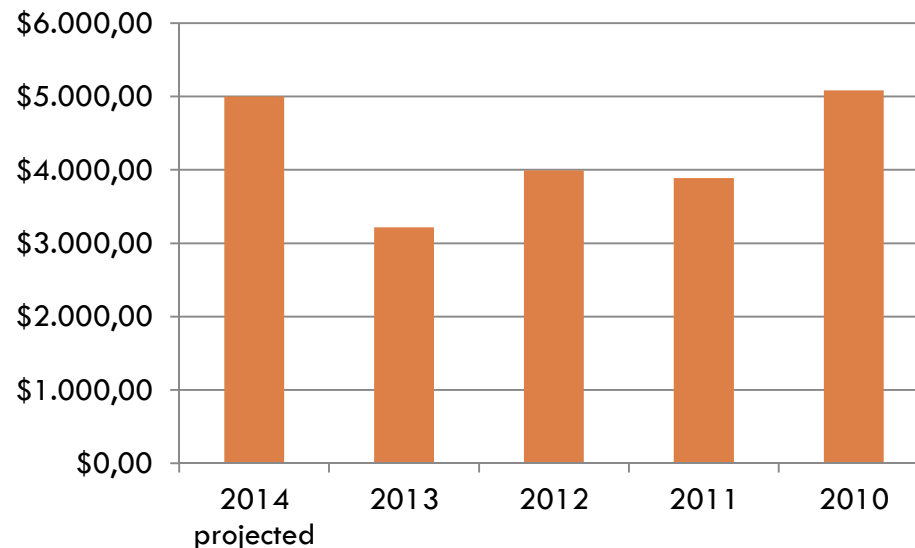
- ▣ Final number: \$3207.88

- 2014 Chicago workshop

- ▣ Current number: \$3574.24

Expenses

- Expenses are stable with the exception of food and wine.
 - San Francisco is expensive!



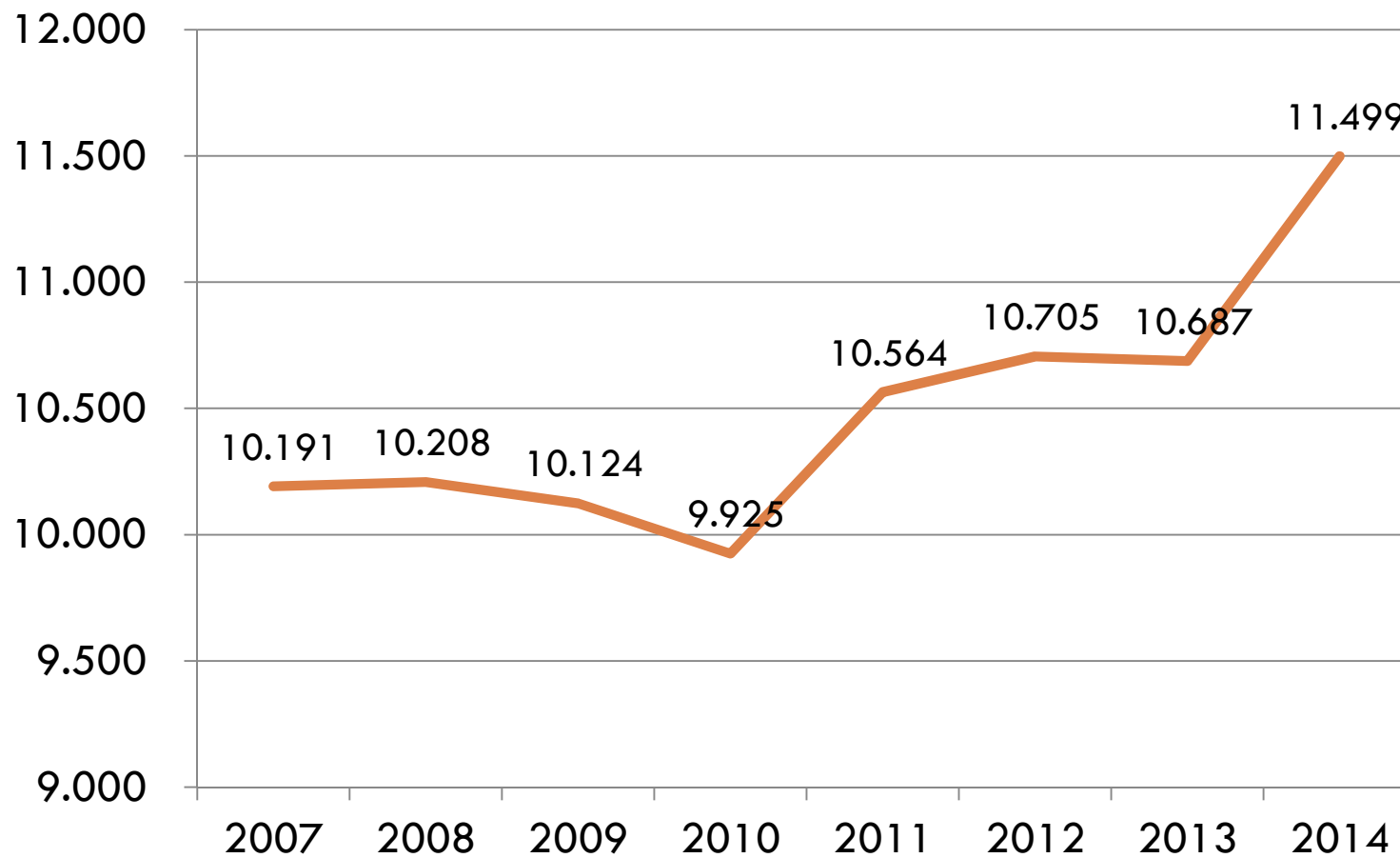
- And that's why there is no cheese



REPORT ON MEMBERSHIP AND COMMUNICATIONS

Mike Hewitt
Loyola University Chicago

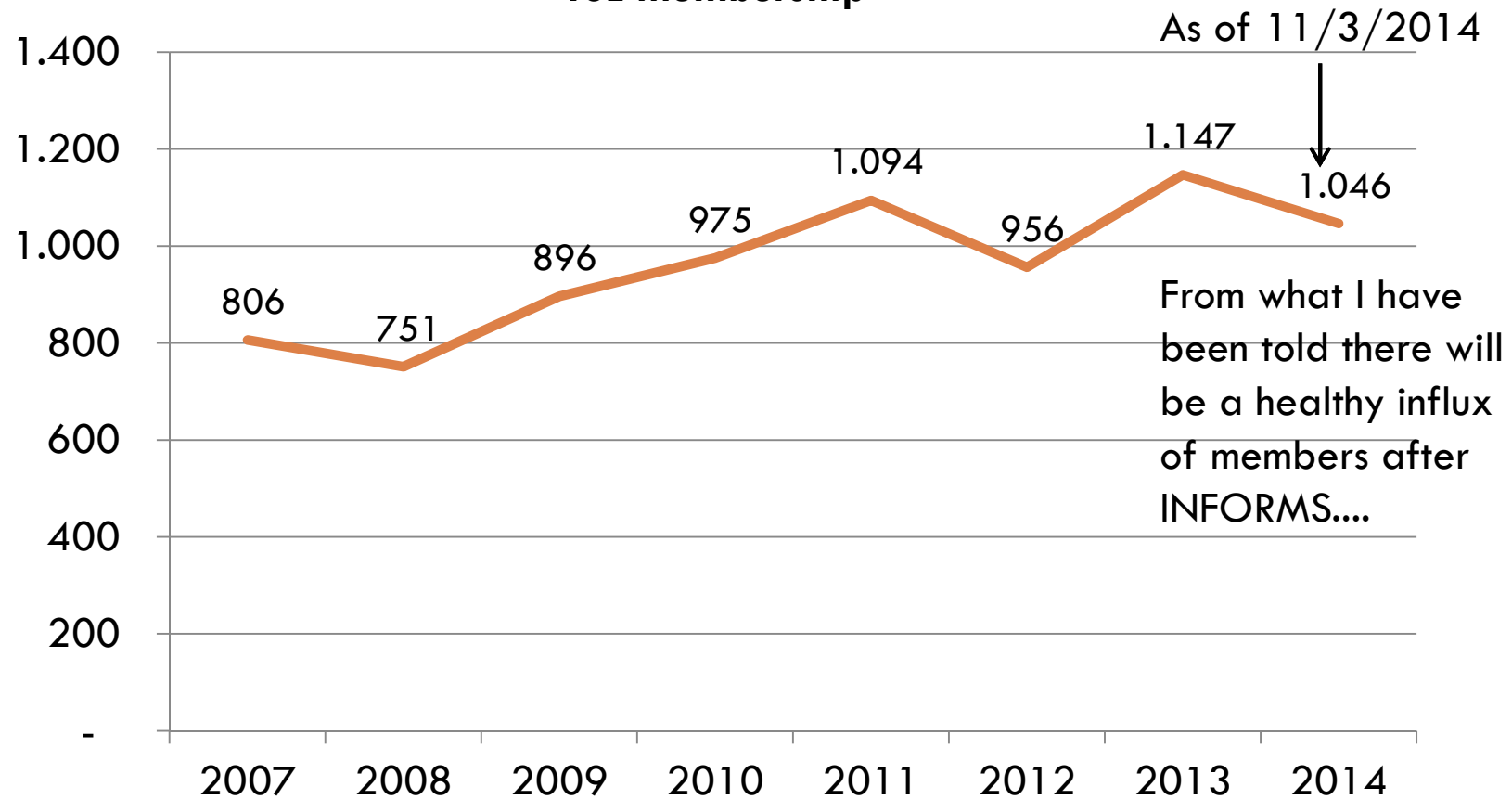
INFORMS membership



INFORMS membership

- Highest since 1998
- Seen increases over last year in all employment types (academic, government, professional, and student)
- Nearly 5,400 attendees at this year's INFORMS!

TSL membership

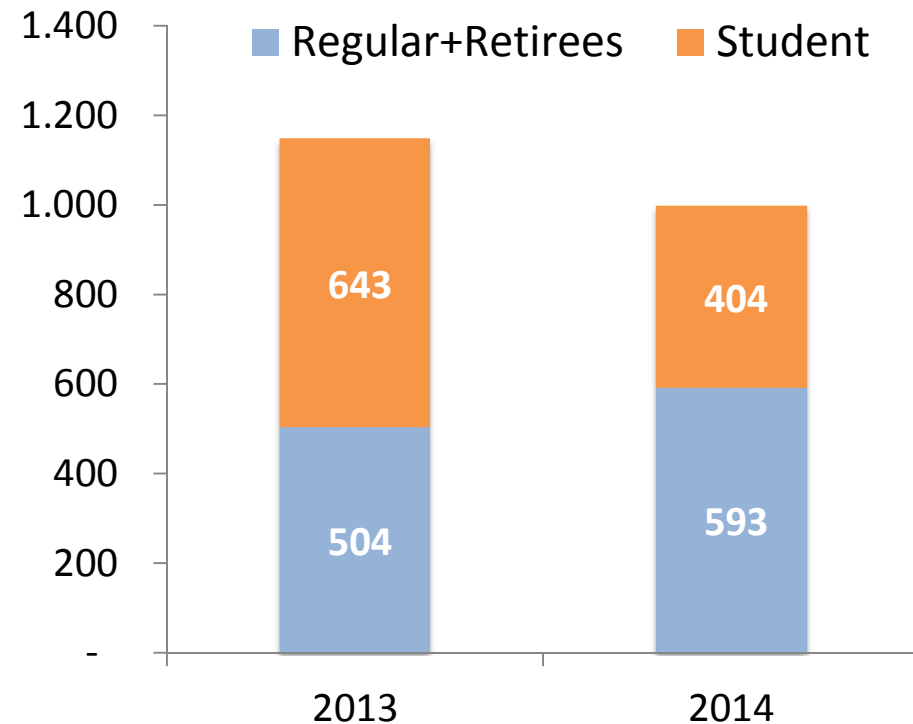


Interesting year for membership



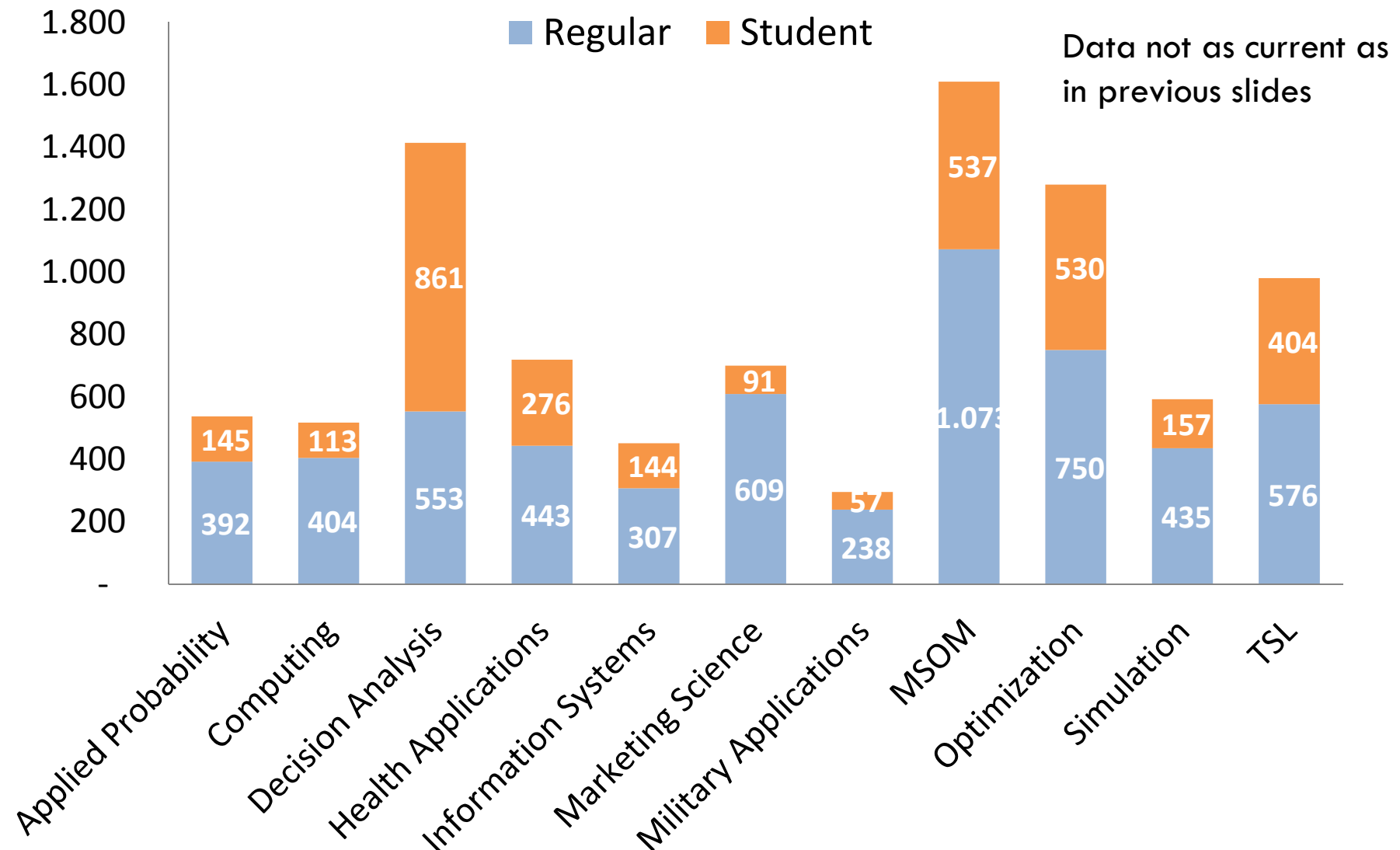
Transportation Science
and Logistics Society

- Ended our agreement with Aviation Applications Section(AAS)
- We started charging students
- We have had 314 new members since 1/1/2014
- Hypothesis is that this is due to INFORMS giving a free subdivision membership to new members
 - Policy will continue
 - Board re-confirms each year



Traded student
members for regular
members

We're number 4!



Communication Chair Initiatives

- I have long wanted to see/read opinion-type pieces from senior researchers in our field
- Perspectives on
 - ▣ under-studied research areas
 - ▣ new research areas
 - ▣ managing an academic career, etc...
- Good content for TSL website, newsletter, etc.
- Happy to report that we will have our first article in early 2015

Interactive optimization in transportation and logistics – Warren B. Powell

I welcome articles from anyone else interested in sharing their experiences and perspectives on our research domain(s)

Interactive optimization in transportation and logistics – Warren B. Powell



Transportation Science
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Excerpts from abstract:

“My earliest successes in optimization models in transportation shared one key characteristic: they were both interactive, allowing people to participate actively in the process of finding the best solution. Interactive optimization models have received very little attention in the transportation science literature, but I think this represents an important research challenge. It is not always obvious how to use a human productively in the search process....

Finally, what represents a publishable contribution? We have a strong bias in our community toward static optimization models where problems have a well defined optimal solution (even if we cannot find it). Interactive optimization implies issues that are **not captured by the model**. (emphasis mine)”

I welcome articles from anyone else interested in sharing their experiences and perspectives on our research domain(s)

Something you'll see soon...

- The TSL listserve will be replaced by INFORMS Connect
- This should be an improvement in how we communicate
- Connect has other features that Barry Thomas will be working on evaluating how it can serve our society

Something you'll see soon...

- The TSL listserve will (likely) be replaced by INFORMS Connect
- INFORMS claims they are trying to get most subdivisions switched over by the end of the year
 - Only Computing society uses it now?
- INFORMS claims that it will be seamless for members
 - You will post messages differently but you'll automatically receive messages just like you do now
 - but can configure frequency (daily, monthly, etc.)
- INFORMS Connect also provides document sharing and storage
- I (and Barry Thomas) will be working on evaluating how else Connect can serve our society

Social Networks



Transportation Science
and Logistics Society

- LinkedIn –
 - ▣ 2010 – 270 members
 - ▣ 2011 – 638 members
 - ▣ 2012 – 1,312 members
 - ▣ 2013 – 1,935 members
 - ▣ 2014 – 2,298 members
- Next newsletter coming out shortly after INFORMS

Observations

- ❑ New member retention is 34%
- ❑ 3411 new members to INFORMS this year
- ❑ Free subdivision membership for new members extended one year
- ❑ Exploring options of further engaging student members
- ❑ We need your help in interacting with new members
- ❑ Tell your students about TSL (and INFORMS)

AWARDS



DISSERTATION AWARD

CHAIR: THOMAS VOSSEN

MEMBERS: ELISABETTA CHERCHI, GUGLIELMO LULLI,
MEGAN S. RYERSON

Thomas Vossen
University of Colorado

Competition

- 24 dissertations submitted
- By countries
 - Australia: 1
 - Germany: 2
 - Netherlands: 1
 - Norway: 1
 - Portugal: 1
 - Spain: 1
 - Sweden: 1
 - Switzerland: 2
 - United Kingdom: 1
 - U.S.A: 13

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Dissertation Award Honorable Mention

Frank Fischer

“Dynamic Graph Generation and an Asynchronous Parallel
Bundle Method Motivated by Train Timetabling”

Chemnitz University of Technology

Advisor: Christoph Helmberg

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Dissertation Award Winner

Samiul Hasan

“Modeling Urban Mobility Dynamics
using Geo-location Data”

Purdue University
Advisor: Satish Ukkusuri

BEST PAPER AWARD

CHAIR: RAJESH GANESAN

MEMBERS: MARKOS PAPAGEORGIOU, MARIELLE
CHRISTIANSEN, MILIND GAJANAN SOHONI, AKSHAY
BELLE

Rajesh Ganesan
George Mason University

Submissions



Transportation Science
and Logistics Society

□ 27 submissions

- urban transportation planning methods- 8
- vehicle routing - 7
- airline operations -2
- facility logistics - 4
- freight -2
- intelligent transportation systems -2
- transit -2
- TSL Policies and Procedures Manual provide the merit criteria for assessment
- The winning paper presents an optimized vehicle routing strategy for road freight that complies with hours of service regulations and is adaptable to different transportation regulations in many countries.
 - The strategy generates schedules that reduces cost, increases safety of drivers, and provides flexibility in terms of schedule exchanges (because schedules are often not well known in advance for planning purposes)

TSL 2014 Best Paper Award

First Prize

Asvin Goel and Thibaut Vidal

“Hours of Service Regulations in Road Freight
Transport: An Optimization-Based
International Assessment”

Transportation Science, 48(3): 391-412, 2014

2014 CLUSTER CHAIR REPORT

Irina Dolinskaya
Northwestern University

TSL Session Summary



Transportation Science
and Logistics Society

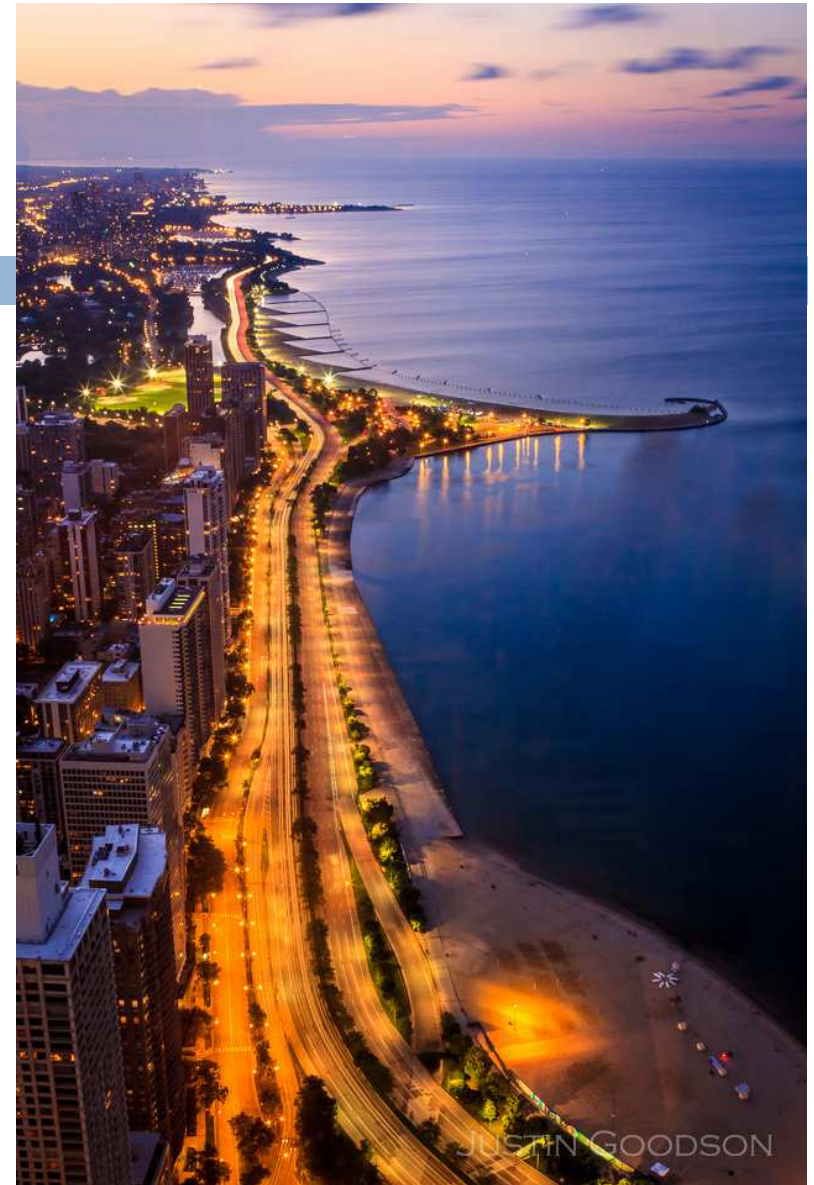
- 69 Sessions, 250+ talks
 - ITS – 13
 - Urban – 7
 - Facility – 4
 - Freight – 15
 - General – 29 total
 - 1 joint with Revenue Management
- Special thanks to
 - SIG Chairs & Vice Chairs
 - Session chairs
 - INFORMS Staff (Ellen Tralongo and Paulette Bronis)
 - Very helpful at all stages of planning
- Next year
 - More joint sessions require better coordination
 - Start thinking and let me know early if you want to organize a session

2014 TSL WORKSHOP
ORGANIZED BY THEO CRAINIC, MIKE
HEWITT, AND MACIEK NOWAK

Mike Hewitt
Loyola University Chicago

TSL Workshop - 2014

- 67 attendees
 - ▣ Australia, Austria, Canada, Chile, China, Germany, Italy, Lebanon, Netherlands, Norway, and US
 - ▣ 21 non-TSL members (5 student)
- 45 talks
 - ▣ + 2 plenaries (John Birge, Warren Powell)
- We turned a profit!
 - ▣ partially due to support of ExxonMobil and Loyola's center for risk management
 - ▣ A very big thank you to both

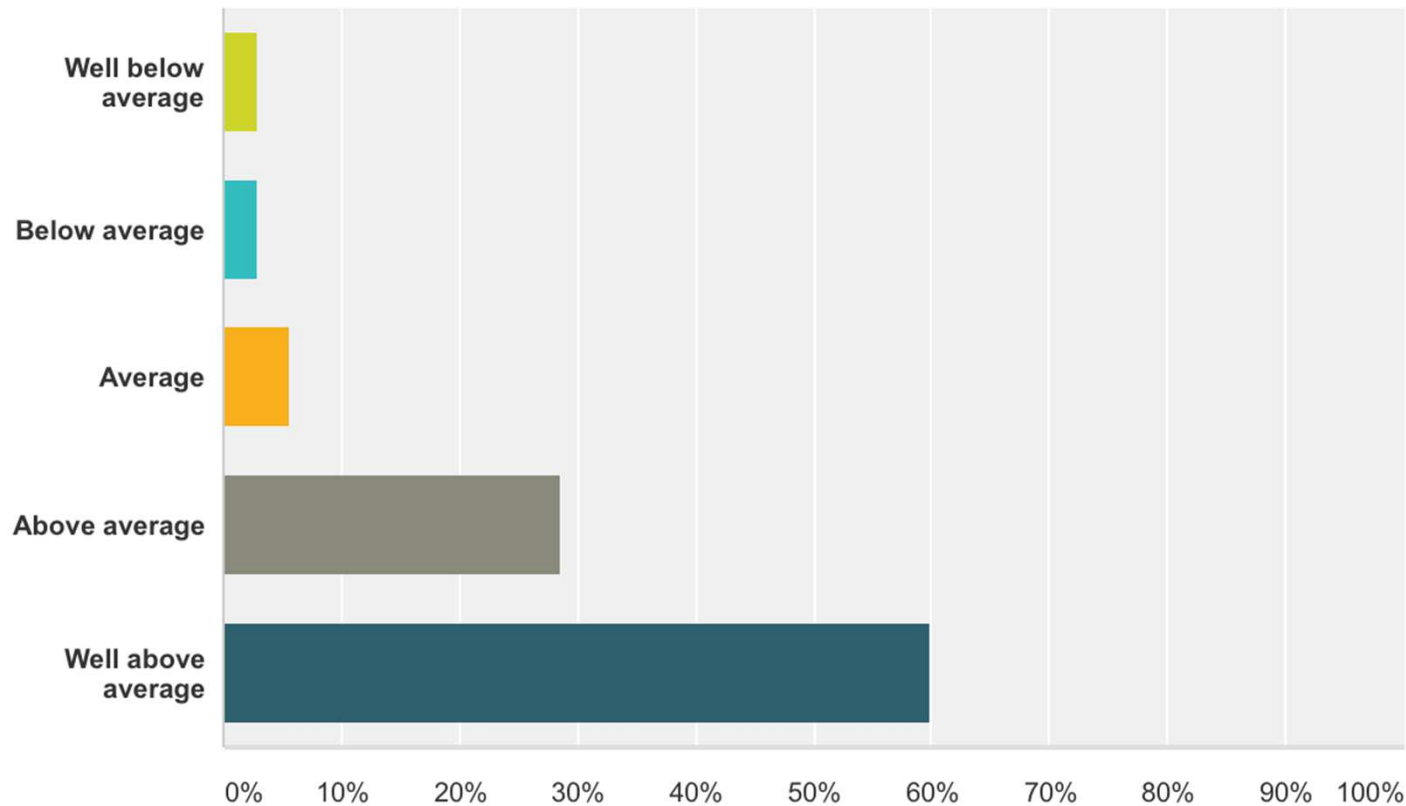


View from top of Hancock building where reception was held. Thanks, Justin Goodson for the picture!

TSL Workshop 2014 survey responses (35 responses out of 67 attendees)

Overall, how would you rate the workshop?

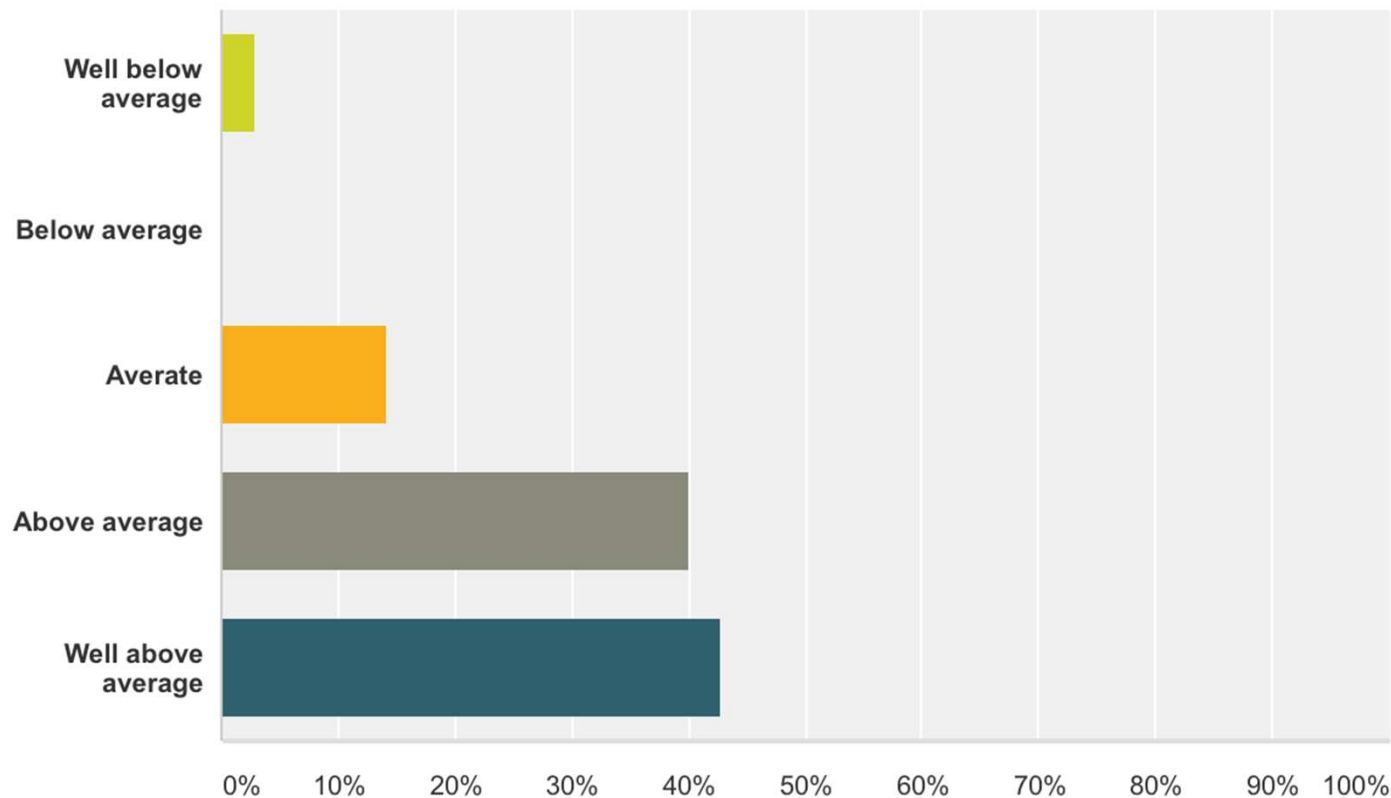
Answered: 35 Skipped: 0



TSL Workshop 2014 survey responses (35 responses out of 67 attendees)

How would you rate the scientific content of
the workshop?

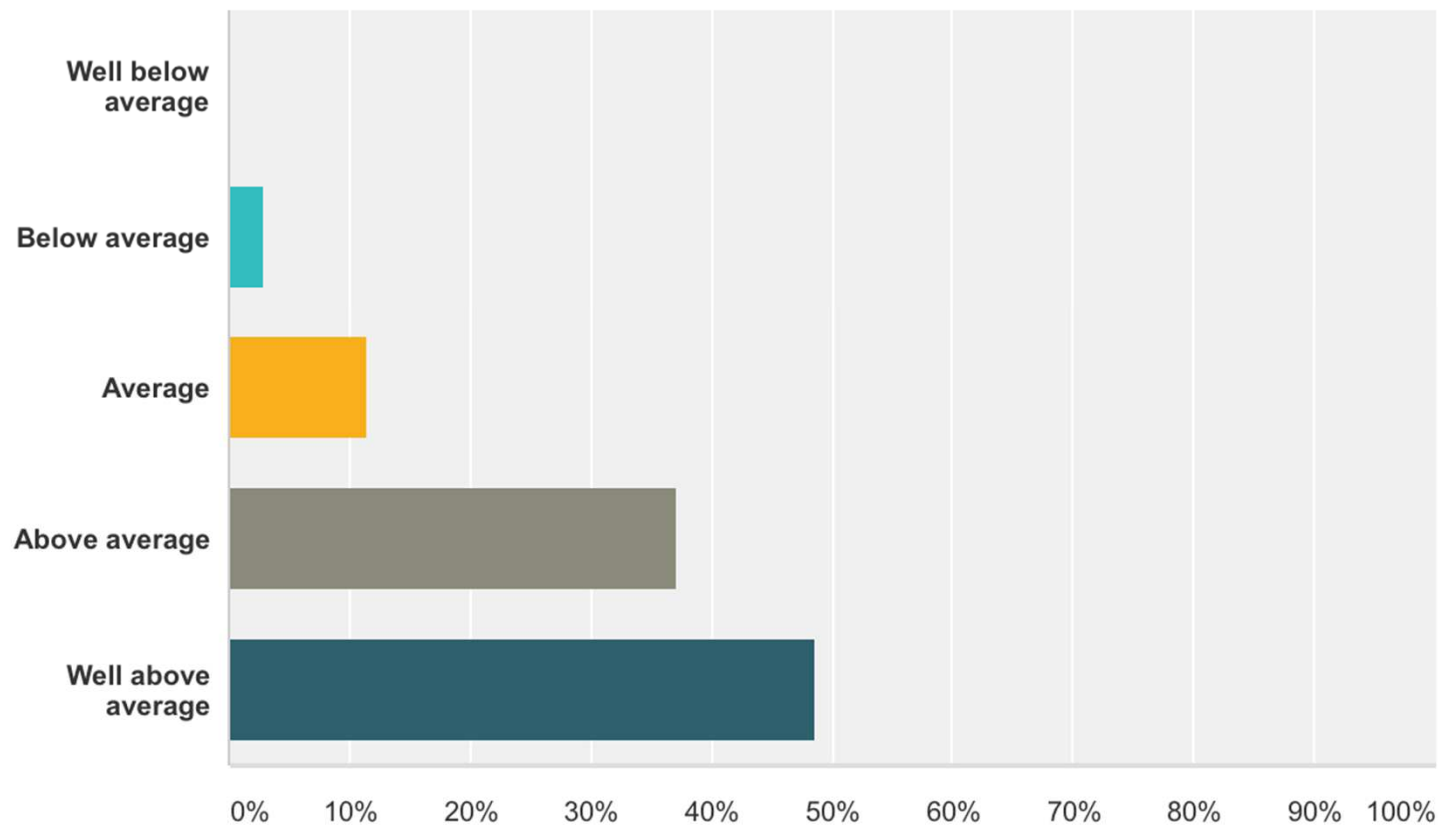
Answered: 35 Skipped: 0



TSL Workshop 2014 survey responses (35 responses out of 67 attendees)

How would you rate the social program of
the workshop (receptions, boat tour, etc.)

Answered: 35 Skipped: 0



2015 TSL WORKSHOP

Jan Fabian Ehmke

4TH TSL WORKSHOP

2015 INFORMS TSL ANNUAL WORKSHOP

RECENT ADVANCES IN URBAN TRANSPORTATION THROUGH OPTIMIZATION AND ANALYTICS



Catherine Cleophas (RWTH Aachen)
Jan Fabian Ehmke (FU Berlin)
Ann Melissa Campbell (U Iowa)

July 6th – July 8th, 2015
Berlin, Germany

2015 INFORMS TSL Annual Workshop



Transportation Science
and Logistics Society

Deadline: Abstract submission till **January 15, 2015**

Website: www.informs.org/Community/TSL/TSL-Workshop

Sample Topics:

- City Logistics
- Demand and Traffic Prediction
- E-Fulfillment
- Fleet Management
- Network Design
- Public Transport
- Revenue Management
- Road Pricing
- Shared Mobility Systems
- Vehicle Routing and Scheduling
- Reliability & Sustainability in Urban Transportation

Social Program: Welcome Drink – City Boat Tour –
Conference Dinner



Come to Berlin!



Don't miss:

- City boat tour with historical, architectural & natural sights
- Museums and art galleries
- Traditional German cuisine & international food scene



TSL CONFERENCE

Grazia Speranza

TSL Conference

- ▣ The idea has been around for some time
- ▣ Survey (from July 9, 2014 – 121 responses)

TSL Conference



Transportation Science
and Logistics Society

What is your opinion on the concept (200-250 people, a proceedings, primarily in North America) of a TSL conference?

Answer Choices	Responses
Strongly disagree	1.65% 2
Disagree	3.31% 4
Neutral	11.57% 14
Agree	52.07% 63
Strongly agree	31.40% 38
Total	121

TSL Conference



Transportation Science
and Logistics Society

How interested are you in attending such a conference?

Answer Choices	Responses
Not interested at all	0.00% 0
Somewhat interested	19.17% 23
Interested	50.83% 61
Very interested	30.00% 36
Total	120

TSL Conference



Transportation Science
and Logistics Society

At what frequency would you like to see a TSL conference occur?

Answer Choices	Responses
Every year	16.67% 20
Every other year	70.83% 85
Every three years	12.50% 15
Total	120

TSL Conference



Transportation Science
and Logistics Society

Which months would you be most likely to attend such a conference?

Answer Choices	Responses
January	20.00% 24
February	15.83% 19
March	21.67% 26
April	23.33% 28
May	48.33% 58
June	55.83% 67
July	53.33% 64
August	38.33% 46
September	23.33% 28
October	15.00% 18
November	14.17% 17
December	8.33% 10
Total Respondents: 120	

TSL Conference



Transportation Science
and Logistics Society

How interested are you in helping organize such a conference?

Answer Choices	Responses
Not at all interested	23.33% 28
Somewhat interested	41.67% 50
Interested	27.50% 33
Very interested	7.50% 9
Total	120

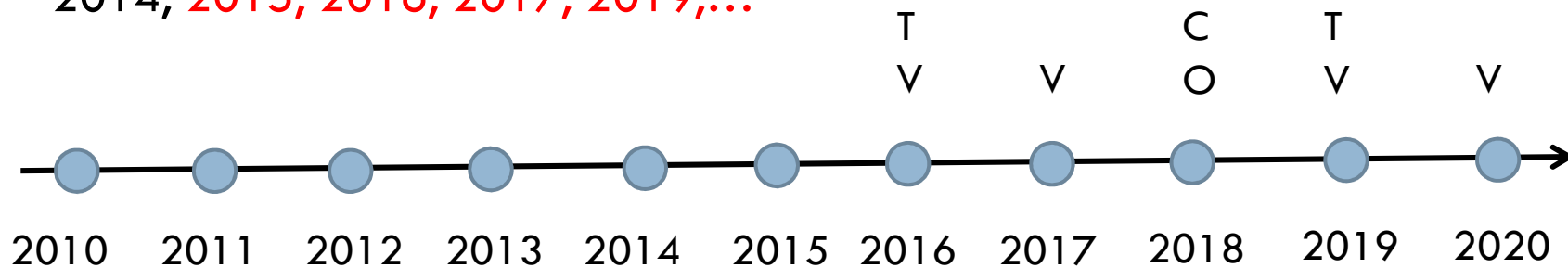
TSL Conference



Transportation Science
and Logistics Society

Mentioned competing conferences:

- Odysseus, once every 3 years,2006, 2009, 2012, 2015, 2018,...
- Tristan, once every 3 years,2007, 2010, 2013, 2016, 2019,...
- CASPT (Conference on Advanced Systems in Public Transport), once every 2-4 years, ..., 2000, 2004, 2006, 2009, 2012, 2015, 2018?
- VeRoLog: in the years Odysseus does not take place,2012, 2013, 2014, 2015, 2016, 2017, 2019,...



TSL				W	W	W	C	W	C	W
TSL				W	W	C	W	C	W	C
TSL				W	W	W	C	W	W	C

TSL Conference

Board proposal to start with:

A TSL conference once every 3 years, when
Tristan and Odysseus do not take place

2 TSL workshops, one per year, in between

Article XII – Policies and Procedures

The Society shall maintain a written Policies and Procedures Manual governing the administration of the prizes and any other services that The Society Board determines is in the best interest of The Society. **Proposals to make major changes to the Policies and Procedures Manual must first be posted on the Society web site**, with an announcement sent via email to the Society members inviting comments to be sent to a designated individual who will compile and present the comments to the Society Board. **A Society Board vote on proposed changes may not take place until the proposed changes have been posted on the web site for at least four weeks**, and the Society Board has had a chance to review all the comments. By a two-thirds majority vote, the Society Board may make small changes, including modifications in response to comments by the membership, without prior membership notification, review and comment.

JOURNAL REPORT: OPERATIONS RESEARCH

Anton Kleywegt, Associate Editor

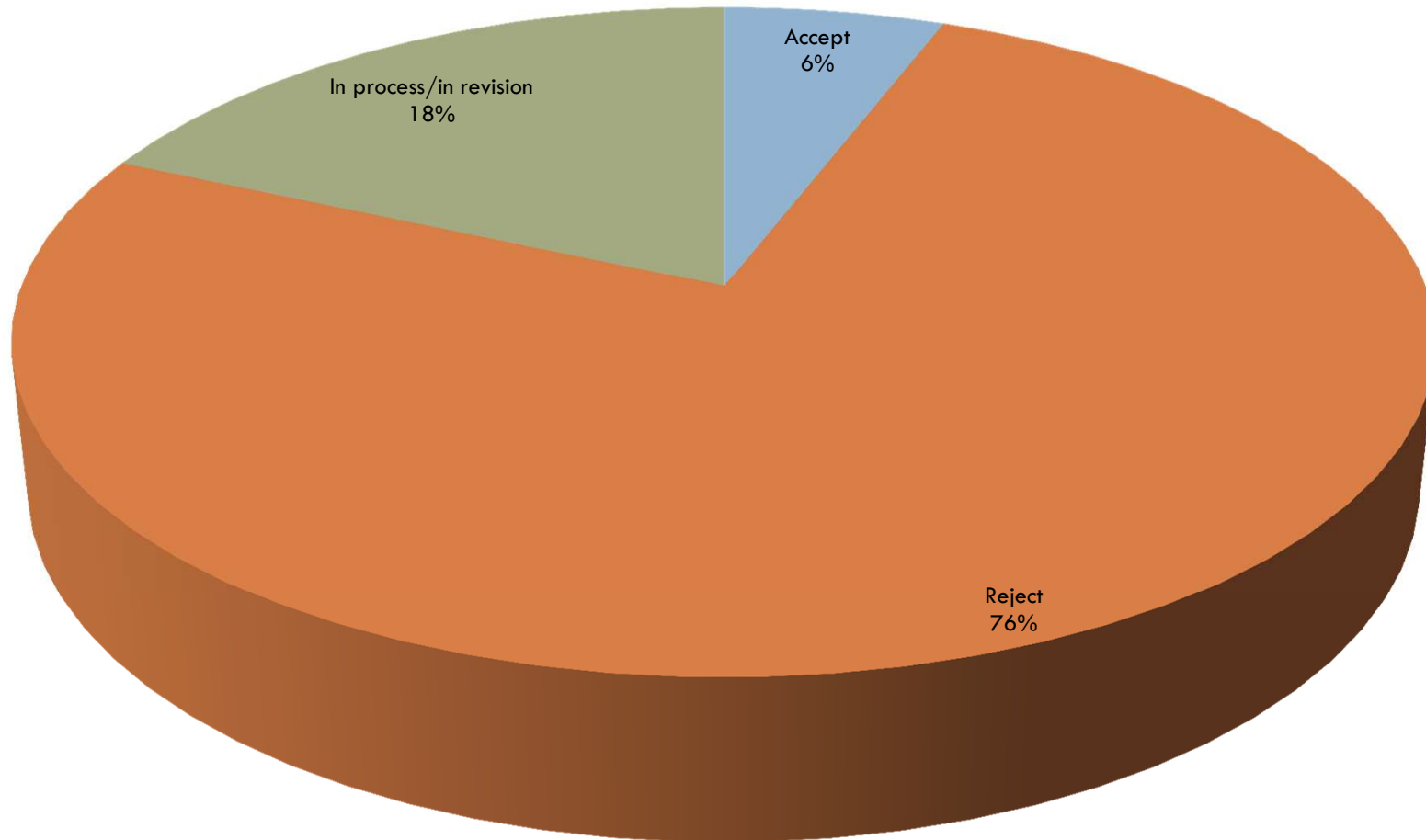
Transportation area: New submissions											
Year	Total rec'd	# decided	% decided	# accepted	% accepted	# revise	% revise	# rejected	% rejected	# in review	% in review
2008	29	29	100.0%	0	0.0%	10	34.5%	19	65.5%	0	0.0%
2009	32	32	100.0%	0	0.0%	7	21.9%	25	78.1%	0	0.0%
2010	32	32	100.0%	0	0.0%	13	40.6%	19	59.4%	0	0.0%
2011	39	39	100.0%	0	0.0%	12	30.8%	27	69.2%	0	0.0%
2012	40	40	100.0%	0	0.0%	11	27.5%	29	72.5%	0	0.0%
2013	51	51	100.0%	0	0.0%	3	5.9%	48	94.1%	0	0.0%
2014 (Q3)	37	24	64.9%	0	0.0%	4	10.8%	20	54.1%	13	35.1%

Transportation area: Revisions											
Year	Total rec'd	# decided	% decided	# accepted	% accepted	# revise	% revise	# rejected	% rejected	# in review	% in review
2008	10	10	100.0%	4	40.0%	3	30.0%	3	30.0%	0	0.0%
2009	12	12	100.0%	3	25.0%	8	66.7%	1	8.3%	0	0.0%
2010	18	18	100.0%	7	38.9%	10	55.6%	1	5.6%	0	0.0%
2011	21	21	100.0%	7	33.3%	10	47.6%	4	19.0%	0	0.0%
2012	16	16	100.0%	5	31.3%	7	43.8%	4	25.0%	0	0.0%
2013	23	23	100.0%	9	39.1%	14	60.9%	0	0.0%	0	0.0%
2014 (Q3)	11	9	81.8%	6	54.5%	2	18.2%	1	9.1%	2	18.2%

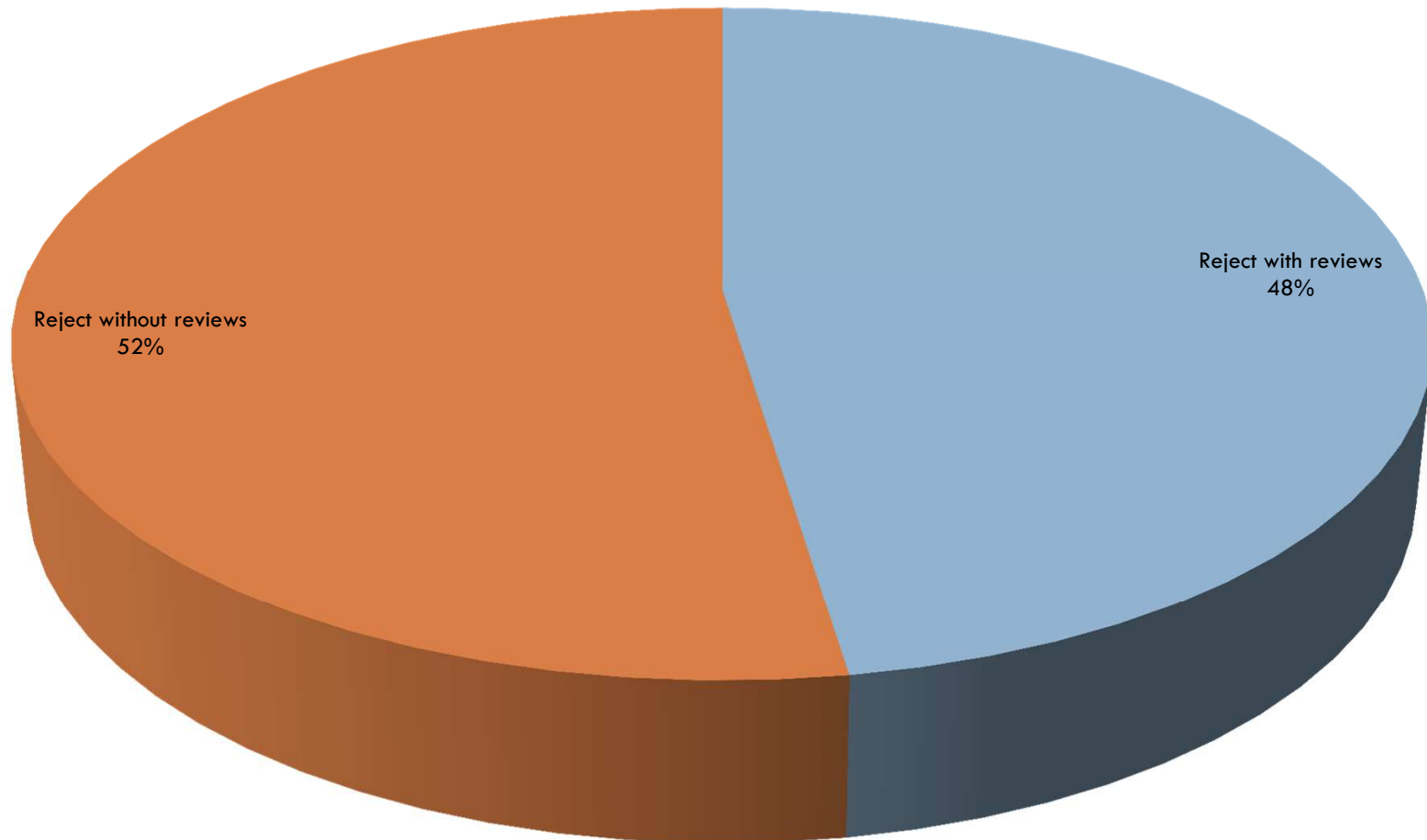
Transportation area: New submissions											
Decisions within # of days											
Year	# decided	#<30 days	%<30 days	#<60 days	%<60 days	#<90 days	%<90 days	#<180 days	%<180 days	#<365 days	%<365 days
2010	32	6	18.8%	8	25.0%	11	34.4%	23	71.9%	31	96.9%
2011	39	14	35.9%	17	43.6%	18	46.2%	29	74.4%	36	92.3%
2012	42	14	33.3%	18	42.9%	24	57.1%	36	85.7%	38	90.5%
2013	51	15	29.4%	22	43.1%	26	51.0%	42	82.4%	50	98.0%
2014 (Q3)	24	9	37.5%	14	58.3%	19	79.2%	23	95.8%	24	100.0%

Transportation area: Revisions											
Decisions within # of days											
Year	# decided	#<30 days	%<30 days	#<60 days	%<60 days	#<90 days	%<90 days	#<180 days	%<180 days	#<365 days	%<365 days
2010	18	0	0.0%	4	22.2%	8	44.4%	14	77.8%	17	94.4%
2011	21	1	4.8%	3	14.3%	6	28.6%	14	66.7%	19	90.5%
2012	16	1	6.3%	5	31.3%	8	50.0%	12	75.0%	15	93.8%
2013	23	5	21.7%	5	21.7%	9	39.1%	18	78.3%	22	95.7%
2014 (Q3)	9	6	66.7%	6	66.7%	8	88.9%	9	100.0%	9	100.0%

**Eventual outcome for papers originally submitted on or after January 1,
2012**



Reject decisions only



JOURNAL REPORT: TRANSPORTATION SCIENCE

Michel Gendreau, Editor-in-chief

Submissions

- Steady flow of submissions over the last year:
279 manuscripts received from October 1st, 2013
to September 30, 2014!
- Less than for the same period in 2012-13 (329)!
- The main difference comes from special issues: 84
submissions in 2012-13, compared to only 6 this year!
- Thus: regular submissions keep on increasing from 245
in 2012-13 to 273 in 2013-14 (11.4 % increase).

Special issues

- Special issue on *Transportation and Energy* (Klabjan and Powell, editors) with 14 papers (230 pages) has been published as the November 2014 issue.
- Special issue on *Freight Transportation* (Crainic, editor): 54 submissions; 32 papers rejected, 11 accepted, and 11 still under revision or review.

If these 11 papers are all accepted, the special issue will have 22 papers and will have to be published in 2 parts. May and August 2015 issues?

Special issues (con'd)

- Special issue in connection with the 2013 TSL Annual Workshop on *Maritime Transportation and Port Logistics* (Psaraftis et al., editors): 41 submissions; 31 papers rejected, 4 accepted, and 6 still under revision or review. Early 2016?
- Special issue on *Facility Logistics* (de Koster et al., eds.): 27 submissions; 18 papers rejected, 3 accepted, and 6 still under revision or review. Early 2016?

Special issues (con'd)

- Special issue in connection with the 2014 TSL Annual Workshop on *Uncertainty in Logistics and Transportation Systems* (Hewitt and Thomas, editors): 15 submissions already received, the deadline for submissions is November 15.

- Other proposals were made during the year, but were turned down, because we need space for regular submissions.

Impact factor and ranking



- In 2013, TS' 2-year impact factor went up to 2.294 (the highest ever) from 1.814.
- The 5-year impact factor went from 2.623 to 2.913.
- TS is now 4th out of 29 journals in Transportation and 6th out of 79 journals in OR-MS!

Acceptance rate and backlog



- The acceptance rate for regular submissions has been slightly going down to 23.6%.
- In spite of this, the large increase in submissions over the last two years led to a longer backlog, which is now close to two years.

Turnaround times

- Turnaround times have increased during 2014.
- The main causes for this has been longer delays before assigning papers to Associate Editors, as well as delays in finalizing decisions on several papers.
- This is definitely an area where there must be improvements in the future!!!

Changes in the Editorial Board



- No official changes in 2014, but several Associate Editors indicated that they could continue serving.
- The new Editor-in-chief will appoint a new board for 2015 on.

ELECTION RESULTS

Grazia Speranza
University of Brescia

Elected are ...

- Secretary/Treasurer
 - ▣ Ann Campbell

Congratulations!

- VP/President-Elect
 - ▣ Maciek Novak 84/168
 - ▣ Karen Smilowitz 84/168

An unlikely perfect tie!

TSL Bylaws: 'Ties shall be resolved by means of fair random processes'

'



The VP/President-Elect is ...

Maciek Novak

Congratulations!

2015 TSL INITIATIVES

Barry Thomas
University of Iowa

What Do Members Want?

- Up-to-date with the state-of-the-art in the field
- Networking with like-minded colleagues
- Recognition

Look for a TSL member survey in early 2015

2015 Initiatives

- TSL Solver Challenge
- Working Paper Repository
- TSL Best Applied Paper Award

Interested in volunteering, questions, comments,
concerns?

Email me at barrett-thomas@uiowa.edu

CONCLUSIONS

Grazia Speranza
University of Brescia