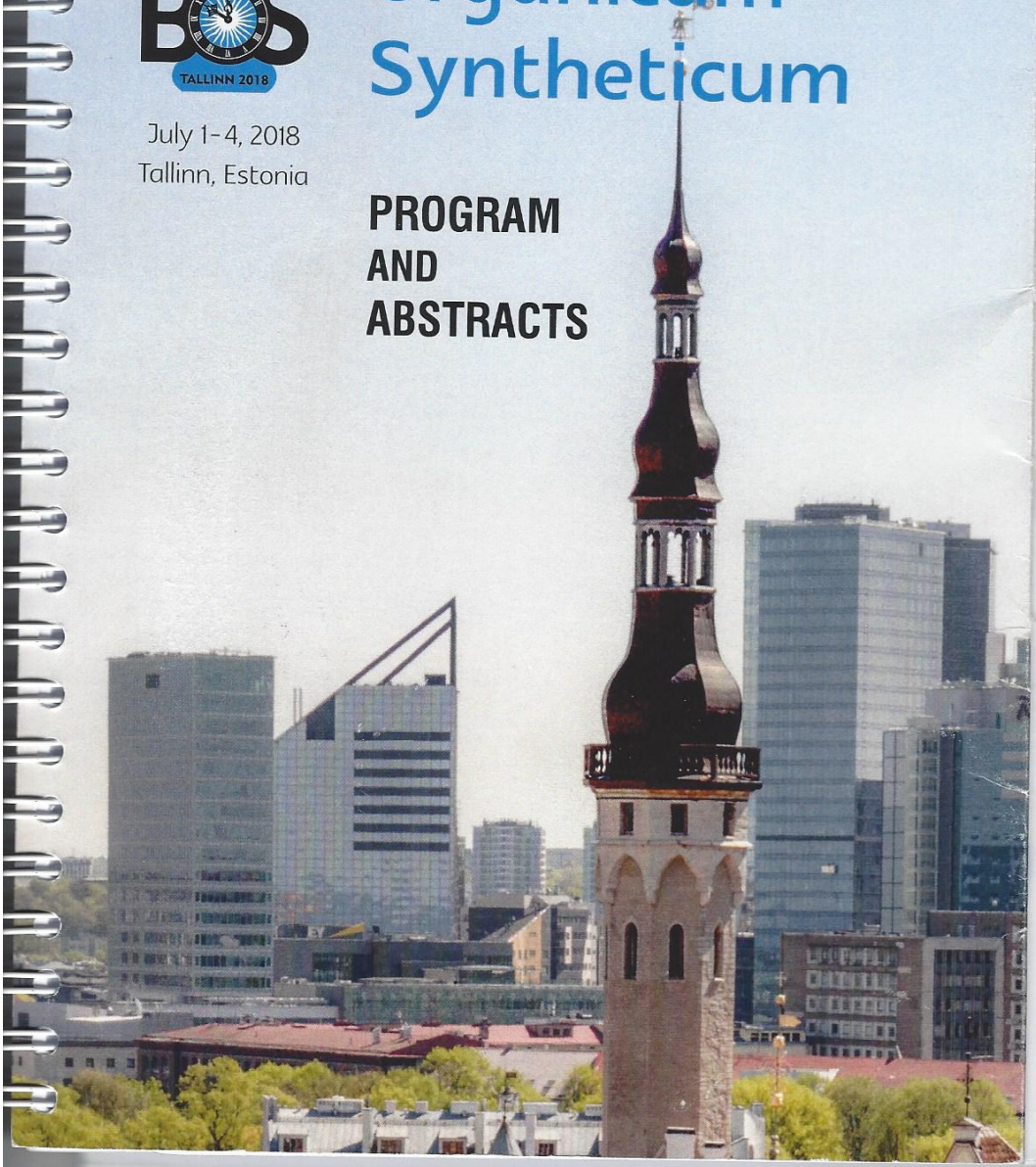
Balticum Organicum Syntheticum

July 1-4, 2018
Tallinn, Estonia

PROGRAM AND ABSTRACTS



PROGRAM

Sunday, July 1

From 11:00	Registration
11:30-13:30	Walking Tour in Old Town
13:15-13:45	Coffee
13:45-14:00	BOS committee welcome
14:00-15:00	PL1 **Karl Scheidt**
15:00-16:00	PL2 **Joshua Dunetz**
16:00-16:30	Coffee
16:30-17:30	PL3 **Veronique Gouverneur**
17:30-19:30	Welcome Reception

Monday, July 2

From 8:30	Registration
9:00-10:00	Opening ceremony
10:00-11:00	PL4 **Dzmitry Kananovich**
11:00-12:00	PL5 **Virgil Percec** —
12:00-12:30	Group photo
12:30-14:00	Lunch
14:00-15:00	PL6 **Paolo Melchiorre**
15:00-16:00	PL7 **Lauren Sirois**
16:00-16:30	Coffee
16:30-17:30	PL8 **Huw Davies**
17:30-19:00	Poster session I
19:00-21:00	Walking Tour in Old Town

Tuesday, July 3

8:45-9:00	Welcome and updates
9:00-10:00	PL9 **Pavel Arsenyan**
10:00-11:00	PL10 **Robert Grubbs**
11:00-11:25	Coffee
11:25-11:35	Thieme presentation
11:35-12:35	Thieme lecturer: **Ruben Martin**
12:35-13:30	Lunch
13:30-14:30	PL11 **Martin Maier**
14:30-15:30	PL12 **Cheng Yi Chen**
15:30-16:00	CAS SciFinder coffee break
16:00-17:00	PL13 **Jeffrey Seeman**
17:00-18:30	Poster session II
19:30	Banquet at the House of the Blackheads

Wednesday, July 4

8:45-9:00	Welcome and updates
9:00-10:00	PL14 **Vytautas Getautis**
10:00-11:00	PL15 **Martin Eastgate**
11:00-11:30	Thieme Poster Prizes
11:30-13:00	Lunch
13:00-14:00	PL16 **Jean Marie Lehn**
14:00-15:00	PL17 **Thomas Colacot**
15:00-16:00	PL18 **Antonio Togni**
16:00-16:30	Closing

BOS TALLINN 2018

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Cationic 1,2-Silyl Shift in Propargyl Silanes

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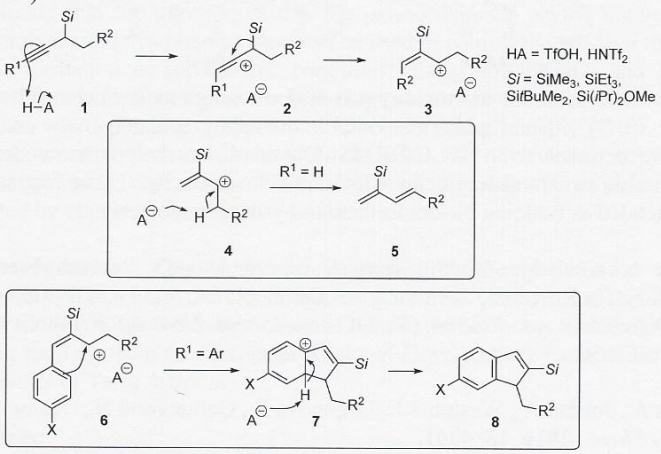
Although the dominant propargyl silane reaction pathway is Hosomi-Sakurai type addition, there are some reports of rearrangement reactions in the intermediate carbenium ions.[1] Now we report a novel way of inducing silyl group migration and describe two endgame scenarios for the reactive intermediates.

Using strong Brønsted acids such as triflic acid it is possible to protonate the triple bond in propargyl silanes **1**. Resulting β-silyl vinyl carbenium ion **2** undergoes 1,2-silyl shift to give more stable β-silyl allyl carbenium ion **3**. Protodesilylation is largely suppressed by usage of bulky silyl groups. Allyl carbenium ions **4** generated from terminal propargyl silanes undergo deprotonation to give silyl dienes **5**. For 1-aryl propargyl silanes a competing intramolecular Friedel-Crafts alkylation in the intermediate carbenium ion **6** is observed. Careful investigation of reaction conditions revealed that more polar solvents and less coordinating counter ions favor silyl indene **8** formation (Scheme 1).



Scheme 1. 1,2-Silyl shift in propargyl silanes.

References: 1. Danheiser, R. L.; Dixon, B. R.; Gleason, R. W. *J. Org. Chem.* **1992**, *57* (23), 6094–6097.