



245th ACS National Meeting and Exposition  
April 7-11, 2013, New Orleans, Louisiana

## Divisions

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**POLY** **Scott Iacono, Sheng Lin-Gibson, Jeffrey Youngblood** **Sunday, April 7, 2013**

### Oral Session

Liquid Crystals and Polymers - AM Session

Liquid Crystals, Polymers, and Novel Devices

Location: Hilton Riverside

Room: Grand Salon B7/10

Organizers: Allan Guymon, Timothy White, Dirk Broer

Presiders: Timothy White

Duration: 8:00 am - 11:25 am

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	8:00 am	33	<a href="#">Recent developments in polymerisable liquid crystals</a> Owain L Parri, Joe Sargent, Kevin Adlem, Eduardo Beltran, Laura Ramon.
<input type="checkbox"/>	8:30 am	34	<a href="#">In-situ polymerized liquid crystal networks: 25 years of research on their formation, properties, and applications</a> Dick Broer
<input type="checkbox"/>	9:00 am	35	<a href="#">Submillisecond-response and scattering-free liquid crystal spatial light modulators</a> Shin-Tson Wu
<input type="checkbox"/>	9:30 am	36	<a href="#">Liquid crystal lasers: From materials to realization</a> Harry J Coles
<input type="checkbox"/>	10:00 am		Intermission
<input type="checkbox"/>	10:15 am	37	<a href="#">Tailoring polymer stabilized liquid crystal alignment for device applications</a> Liang-Chy Chien, Jeoung-Yeon Hwang.
<input type="checkbox"/>	10:45 am	38	<a href="#">Dynamic reflection notch broadening in polymer stabilized cholesteric liquid crystals</a> Lalgudi V Natarajan, Vincent P Tondiglia, Kyungmin Lee, Mike McConney, Timothy J Bunning, Timothy J White, Chad M Keister.
<input type="checkbox"/>	11:05 am	39	<a href="#">Large reflection notch tuning of cholesteric liquid crystals stabilized by chiral liquid crystal polymers</a> Kyung Min Lee, Lalgudi V Natarajan, Vincent P Tondiglia, Michael E McConney, Timothy J Bunning, Timothy J White.

**POLY** **Scott Iacono, Sheng Lin-Gibson, Jeffrey Youngblood** **Sunday, April 7, 2013**

### Oral Session

Liquid Crystals and Polymers - PM Session

Liquid Crystalline Nanocomposites and Micro-Assemblies

Location: Hilton Riverside

Room: Grand Salon B7/10

Organizers: Timothy White, Allan Guymon, Dirk Broer

Presiders: Allan Guymon

Duration: 1:30 pm - 5:05 pm

Pres Time	Pub #	Presentation Title
1:30 pm	83	<a href="#">One-piece micropumps from liquid crystalline core-shell particles</a> Rudolf Zentel, Eva-Kristina Fleischmann, Hsin-Ling Liang, Jan Lagerwall.
2:00 pm	84	<a href="#">Shapeable particles in nematic colloids</a> Slobodan Zumer, Miha Ravnik.
2:30 pm	85	<a href="#">Thermal and electrical actuation of nematic liquid crystal elastomeric micropillars</a> Shu Yang, Yu Xia, Elaine Lee.
2:50 pm	86	<a href="#">Self-assembly of mesogen-coated gold nanorods</a> Torsten Hegmann, S. Umadevi, Xiang Feng.
3:10 pm	87	<a href="#">SWCNT nanocomposites based on an all-aromatic liquid crystal polyetherimide: Synthesis and characterization</a> Maruti Hegde, Ugo Lafont, Ben Norder, Stephen J. Picken, Edward T. Samulski, Michael Rubinstein, Theo Dingemans.
3:30 pm		Intermission
3:45 pm	88	<a href="#">Optical control of reconfigurable shape-morphing liquid crystal elastomeric colloids in nematic and cholesteric liquid crystals</a> Ivan I Smalyukh
4:15 pm	89	<a href="#">Liquid-crystalline organization as a tool for the elaboration of hybrid functional materials</a> Daniel Guillon, Sylvie Bégin, Bertrand Donnio, Alfonso Garcia-Marquez, Arnaud Demortière, Emmanuel Terazzi, Saiwan Buathong.
4:45 pm	90	<a href="#">3D topology of smectic liquid crystals guided by nanoparticle assembly and a patterned substrate</a> Apiradee Honglawan, Shu Yang, Daniel Beller, Randall D. Kamien.

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Monday, April 8, 2013

**Oral Session**

Liquid Crystals and Polymers - AM Session

Templated Polymer/Liquid Crystal Composites

Location: Hilton Riverside

Room: Grand Salon B7/10

Organizers: Timothy White, Allan Guymon, Dirk Broer

Presiders: Harry Coles, Rudolf Zentel

Duration: 8:00 am - 12:10 pm

Pres Time	Pub #	Presentation Title
8:00 am	127	<a href="#">Templated chiral polymer architectures</a> Micahel McConney, Madeline Duning, Seth Cazell, Lalgudi Natarajan, Vincent Tondiglia, Timothy White, Timothy Bunning.
8:30 am	128	<a href="#">Functional organic materials based on polymer liquid crystalline networks</a> Albertus P.H.J. Schenning, Dirk J. Broer, Kees W.M. Bastiaansen.
9:00 am	129	<a href="#">On patterning liquid crystal monomers into "perfect" geometric phase holograms</a> Michael Escuti
9:30 am	130	<a href="#">Color and intensity tuning in polymer stabilized cholesteric liquid crystals</a> Deng-Ke Yang, Hussein Nemati, Rafael Zola.
9:50 am	131	<a href="#">Time-programmed helix inversion in phototunable liquid crystals</a> Sarah-Jane Abhoff, Supitchaya Iamsaard, Alessandro Bosco, Jeroen J.L.M. Cornelissen, Ben L. Feringa, Nathalie Katsonis.
10:10 am		Intermission
10:30 am	132	<a href="#">Enhanced mechanical properties and stimuli response in nanostructured polymers templated in lyotropic liquid crystals</a> Bradley S. Forney, Kristan S. Worthington, Allan Guymon.
11:00 am	133	<a href="#">Design of non-aqueous lyotropic liquid crystal monomer systems for the tuning of bicontinuous cubic networks in molecular separation applications</a> Douglas L Gin, Brian R Wiesenauer, Blaine M Carter, Richard D Noble.
11:20 am	134	<a href="#">Nanostructured membrane materials from gemini dicarboxylate surfactant lyotropic liquid crystal</a>

<input type="checkbox"/>	11:50 am	134	<a href="#">Nanostuctured membrane materials from gemini dicarboxylate surfactant lyotropic liquid crystal self-assembly</a> Gregory P. Sorenson, <a href="#">Mahesh K. Mahanthappa</a> .
	11:50 am	135	WITHDRAWN

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Monday, April 8, 2013

### Oral Session

Liquid Crystals and Polymers - PM Session

Liquid Crystal Polymer, Dendrimer, and Elastomer Chemistry and Characterization

Location: Hilton Riverside

Room: Grand Salon B7/10

Organizers: Timothy White, Allan Guymon, Dirk Broer

Presiders: Rudolf Zentel

Duration: 1:30 pm - 4:45 pm

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	1:30 pm	169	<a href="#">Nanostuctured liquid crystals exhibiting photonic and ionic functions</a> <a href="#">Takashi Kato</a>
<input type="checkbox"/>	2:00 pm	170	<a href="#">Thermal strain recovery in liquid crystalline elastomers</a> <a href="#">Anselm C Griffin</a> , Tyne M Dutzer, Coley P Rahn.
<input type="checkbox"/>	2:20 pm	171	<a href="#">Biodegradable and biocompatible side chain liquid crystal elastomers: Synthesis, characterization, and cellular response of <math>\epsilon</math>-caprolactone-based scaffolds</a> Abdollah Neshat, Anshul Sharma, Tory Stankovich, Alek Nielsen, Torsten Hegmann, <a href="#">Elda Hegmann</a> .
<input type="checkbox"/>	2:40 pm	172	<a href="#">Dynamic self-strengthening in liquid crystal elastomers</a> <a href="#">Aditya Agrawal</a> , Alin Cristian Chipara, Yousif Shamoo, Prabir K. Patra, Pulickel M. Ajayan, Walter G. Chapman, Rafael Verduzco.
<input type="checkbox"/>	3:00 pm		Intermission
<input type="checkbox"/>	3:15 pm	173	<a href="#">New liquid crystalline dendrimeric networks: A surprisingly high versatile type of materials</a> <a href="#">Jose L. Serrano</a> , Ana Omenat, Ramon Cervera-Procas.
<input type="checkbox"/>	3:45 pm	174	<a href="#">All-aromatic liquid crystal thermosets: A new family high performance polymers</a> <a href="#">Theo J. Dingemans</a> , Edward Samulski.
	4:05 pm	175	WITHDRAWN
<input type="checkbox"/>	4:25 pm	176	<a href="#">Design of advanced functional material for photonic application by exploiting side-chain liquid crystalline brush copolymers</a> <a href="#">Prashant Deshmukh</a> , Sukkyun Ahn, Manesh Gopinadhan, Chinedum O Osuji, Rajeswari M Kasi.

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Tuesday, April 9, 2013

### Oral Session

Liquid Crystals and Polymers - AM Session

Mechanically Active and Adaptive Liquid Crystal Polymers, Networks, and Elastomers

Location: Hilton Riverside

Room: Grand Salon B7/10

Organizers: Timothy White, Allan Guymon, Dirk Broer

Presiders: Dirk Broer

Duration: 8:00 am - 11:35 am

	Pres Time	Pub #	Presentation Title
<input type="checkbox"/>	8:00 am	213	<a href="#">Fabrication of photomobile polymer materials with a bilayer structure and their photoresponsive behavior</a>

- Tomiki Ikeda
- 8:30 am 214 [Wireless mechanical adaptivity: Photomechanical effects in azobenzene-functionalized polymeric materials](#)  
Timothy J White, Michael E McConney, Kyung Min Lee.
- 9:00 am 215 [Switchable and permanent surface topographies formed in chiral nematic media](#)  
Danqing Liu, Cees W.M. Bastiaansen, Jaap den Toonder, Dirk Broer.
- 9:20 am 216 [Synthesis and characterization of a thiol-ene based liquid crystalline hydrogel](#)  
Amir Torbati, Patrick T Mather.
- 9:40 am 217 [Self-assembly of coil-liquid crystal \(LC\) diblocks in LC solvent: Hierarchies of anisotropies](#)  
Julia A Kornfield, Rohan Hule, Zuleikha Kurji, Paul Pirogovsky.
- 10:00 am Intermission
- 10:15 am 218 WITHDRAWN
- 10:45 am 219 [Photodeformable crosslinked liquid crystal polymers and light-driven soft actuators](#)  
Yanlei Yu
- 11:15 am 220 [3D mechanical deformations of azobenzene functionalized liquid crystalline polymer networks](#)  
Jeong Jae Wie, Kyung Min Lee, Brandon M Lynch, Timothy J White.

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Tuesday, April 9, 2013

**Poster Session**

Liquid Crystals and Polymers - PM Session

Location: Morial Convention Center

Room: Hall E

Organizers: Allan Guymon, Timothy White

Duration: 5:30 pm - 7:30 pm

- | Pub #                        | Presentation Title   |
|------------------------------|--|
| <input type="checkbox"/> 373 | <a href="#">Towards a low temperature biaxial nematic phase: Synthesis and phase behavior of oxazole based liquid crystals</a><br><u>Katie M. Gulliford</u> , <u>Eric Scharrer</u> , Mary Packard. |
| <input type="checkbox"/> 374 | <a href="#">Effects of nano-confinement on the structure and properties of liquid crystalline polymers</a><br><u>Paola A. Gonzalez Garza</u> , Zhenpeng P. Li, Eric Baer, Christopher J. Ellison.  |
| <input type="checkbox"/> 375 | <a href="#">Perfluorinated side chain liquid crystals: Transport and free volume behavior in UV-cured acrylate networks</a><br><u>James Goetz</u> , Sergei Nazarenko.                              |
| 376                          | WITHDRAWN  |