Conflict of interest form for council

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Conflicts of interest (COI) arise where there is a divergence between an individual’s responsibilities to COPE Council and their other interests, such that an individual’s motives might be compromised, or perceived to be compromised. COIs are important since Council members’ opinions and actions must be, and be seen to be, impartial. COI of all council members are collected on election and annually thereafter.

COI include, but are not limited to, the following. Council members are required to disclose any of the following:

All relevant financial relationships with commercial interests (entities producing, marketing, re-selling, or distributing goods or services) in any amount as well as the nature of the relationship (personal or immediate family) within the past 5 years, eg;

- Grant/research support:
  DOE funding as primary source

- Consultancies: None

- Membership of speakers’ bureaux: None

- Patent ownership: over 30 patents

<table>
<thead>
<tr>
<th>Patent Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,175,397</td>
<td>Multilayer heterostructures and their manufacture</td>
</tr>
<tr>
<td>9,142,408</td>
<td>Liquid precursor for deposition of indium selenide and method of preparing the same</td>
</tr>
<tr>
<td>9,130,084</td>
<td>Liquid precursor for deposition of copper selenide and method of preparing the same</td>
</tr>
<tr>
<td>9,105,797</td>
<td>Liquid precursor inks for deposition of In--Se, Ga--Se and In--Ga--Se</td>
</tr>
<tr>
<td>8,940,444</td>
<td>Hybrid radical energy storage device and method of making</td>
</tr>
<tr>
<td>8,876,971</td>
<td>Precursors for formation of copper selenide, indium selenide, copper indium diselenide, and/or copper indium gallium diselenide films</td>
</tr>
</tbody>
</table>
7 8,759,144 Fabrication of contacts for silicon solar cells including printing burn through layers
8 8,641,931 Metal inks
9 8,536,049 Method for forming metal contacts
10 8,329,502 Conformal coating of highly structured surfaces
11 8,075,792 Nanoparticle-based etching of silicon surfaces
12 8,057,850 Formation of copper-indium-selenide and/or copper-indium-gallium-selenide films from indium selenide and copper selenide precursors
13 8,021,641 Methods of making copper selenium precursor compositions with a targeted copper selenide content and precursor compositions and thin films resulting therefrom
14 7,754,352 Amorphous semiconducting and conducting transparent metal oxide thin films and production thereof
15 7,109,818 Tunable circuit for tunable capacitor devices
16 6,830,778 Direct printing of thin-film conductors using metal-chelate inks
17 6,436,305 Passivating etchants for metallic particles
18 6,126,740 Solution synthesis of mixed-metal chalcogenide nanoparticles and spray deposition of precursor films
19 5,785,837 Preparation of transparent conductors ferroelectric memory materials and ferrites
20 5,711,803 Preparation of a semiconductor thin film
21 5,462,647 Preparation of lead-zirconium-titanium film and powder by electrodeposition
22 5,440,238 Surface property detection apparatus and method
23 5,358,928 High temperature superconductor step-edge Josephson junctions using Ti-Ca-Ba-Cu-O
24 5,356,516 Process for etching mixed metal oxides
25 5,262,395 Superconducting active impedance converter
26 5,132,248 Direct write with microelectronic circuit fabrication
27 4,841,778 Optical fiber sensor technique for strain measurement
28 4,829,020 Substrate solder barriers for semiconductor epilayer growth
29 4,641,037 Organic metal neutron detector
30 4,550,014 Method for production of free-standing polycrystalline boron phosphide film
31 4,438,183 Photoelectrochemical cell having photoanode with thin boron phosphide coating as a corrosion resistant layer

- Membership of scientific advisory board:
  National Taiwan University, SLAC, Technion Israel, Los Alamos National Laboratories, Colorado School of Mines

- Membership of board of directors:
  Currently Board of the ASC PRF fund, past Materials Research Society and National Ski Patrol

- Stock shareholding (directly purchased): Apple, IBM, Johnson and Johnson, caterpillar, walmart, dow, titan

- Other financial support (eg, honoraria, travel grants, gift, royalties) (please specify):
  Small speaking grants 10-15 per year
Any **non-financial relationships/affiliations** relevant to COPE (please specify): none

**Further information**
Charity Commission

While COIs will be reviewed annually, they must also be specifically declared at the beginning of each Council or Forum meeting or before participation in any complaints processes. COIs are posted on COPE’s website.