Why I am the best candidate

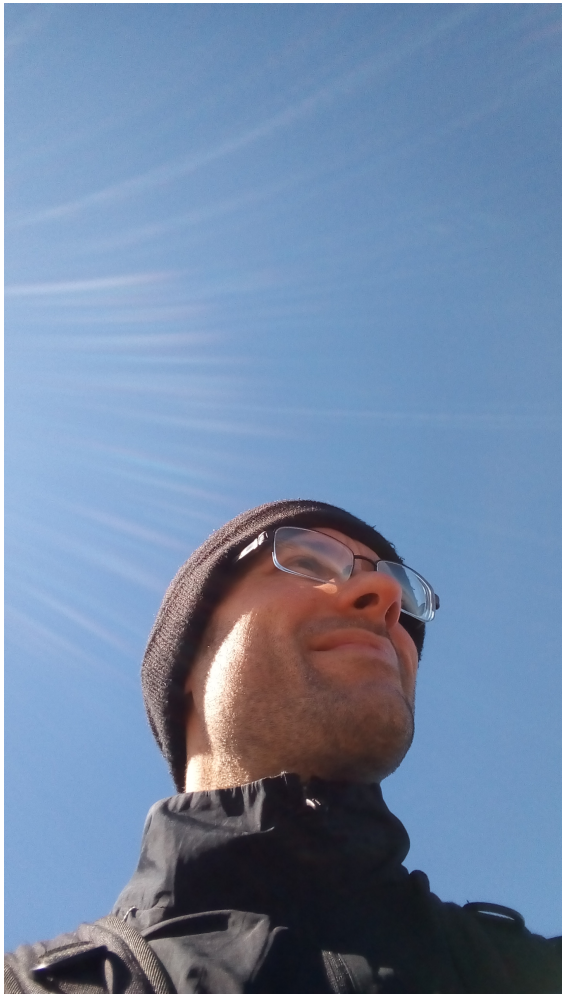
Mariano Forti

2018

I

nterview details here

Who am I?



Comisión Nacional de Energía Atómica

INSTITUTO DE TECNOLOGÍA SABATO 25 Años

- based at Argentina, Ciudad de Buenos Aires
- Father of two, when I can runner, love to make bread

Scientific support to Special Alloys Foundry

taking a small part since August 2018, but special challenge because this is strictly related to production of security related components of the CAREM reactor.

Standard and Technical documentation interpretation.

comparation of chemical analysis methods.

Quality assurance related stuff:

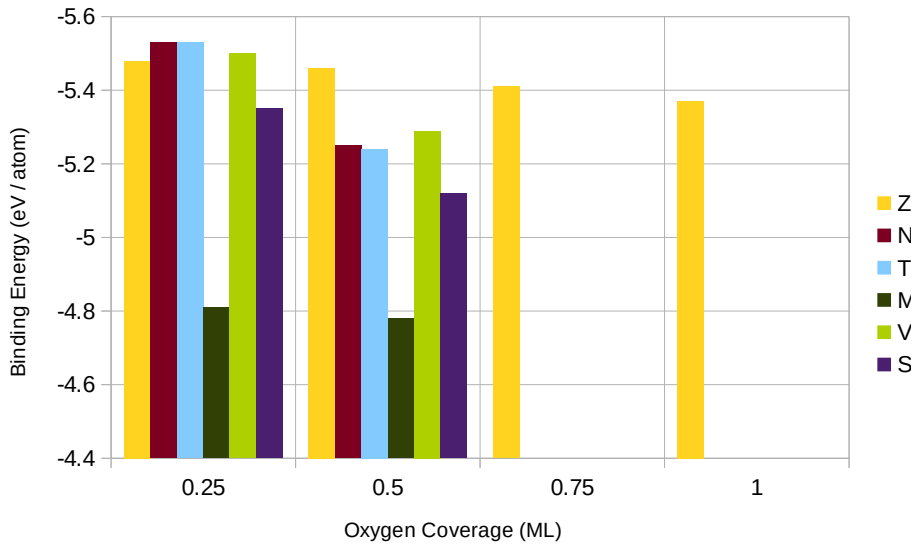
- documentation registries and archiving
- documentation codification

$Zr(10\bar{1}0)$ surface, alloy segregation and Hydrogen Absorption

This project is carried on in colaboration with Fernando Soto, a Postdoc at Perla Balbuena's group in Texas A&M University, USA.

Progress so far

- Ta and V segregate differently than Nb and Sn



Zr($10\bar{1}0$) surface, alloy segregation and Hydrogen Absorption

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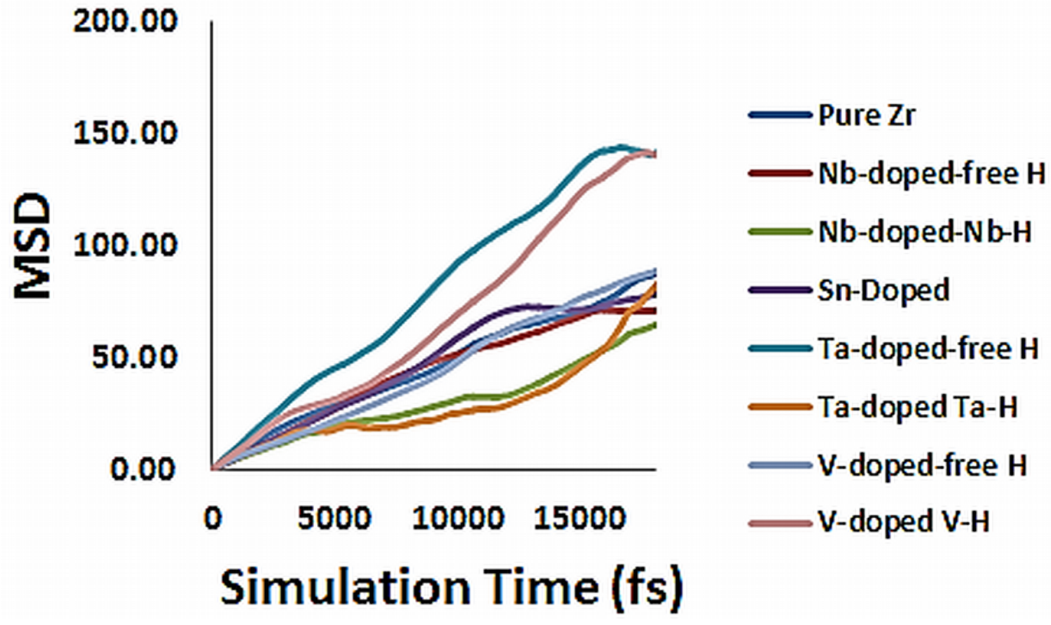
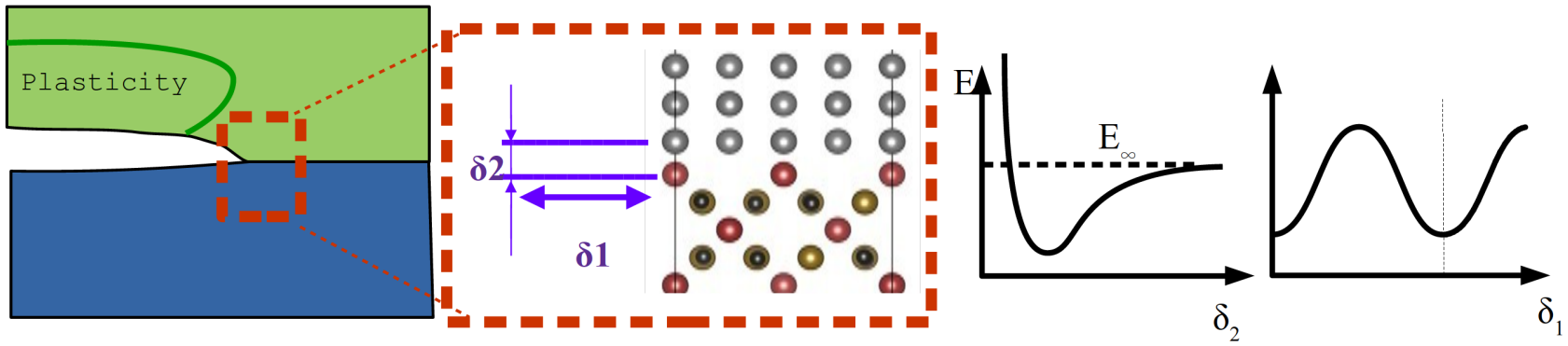
Progress so far

- Ta and V segregate differently than Nb and Sn
- Hydgrogen moves differently in the presence of Ta and V,



FeBCC/Fe_3O_4



$$\tilde{L}_{\delta_1} = \frac{E_{ad}}{W_{sep}} = \exp\left(\frac{\delta_2}{\hat{\delta}}\right) \sum_{i=0}^{i_{max}} (1+\beta)^i \left[-1 + f(\delta_1)(1+\beta)^i\right] \alpha_i \left(\frac{\delta_2}{\hat{\delta}}\right)^i \qquad T_1(\delta_1, \delta_2) = -\frac{\partial W}{\partial \delta_1} \qquad T_2(\delta_1, \delta_2) = -\frac{\partial W}{\partial \delta_2}$$