# Title Goes Here

Maurício de Oliveira

**BobFest**
2024

## Bob's 60th Birthday

## Bob's 60th Birthday

# Bob's ~~60th~~ 70th Birthday

**BobFest**

**"Career with Cheer: Robert *Wit*mead's Legacy of Control and Selflessness"**

Saturday, June 8, 2024
Cymer Conference Room
SME Building, UC San Diego

**Program**

| | | |
|---|---|---|
| | **Welcome** | |
| 10:00-10:05 | Introduction | Miroslav Krstic |
| 10:05-10:10 | Bob's biosketch | Jorge Cortes |
| | **Bob The Colleague** | |
| 10:10-10:15 | *Remarks* | Stefan Llewellyn Smith |
| 10:15-10:20 | *Remarks* | Marsha Chandler |
| 10:20-10:25 | *Remarks* | George Tynan |
| | **Bob The Researcher** | |
| 10:25-10:45 | *The Eight-author Book and Marie Antoinette Poubelle* | Rick Johnson |
| 10:45-11:05 | *Solving MPC Problems Using Ramp Function* | Morten Hovd |
| 11:05-11:25 | *The Adaptive Thinking Man* | Mauricio de Oliveira |
| 11:25-11:45 | *One Norm to Rule Them All* | Robert Kosut |
| 11:45-12:20 | Videos | Brian Anderson, Tamer Basar, Michel Gevers, Ioan Landau, Vincent Wertz |
| | **Lunch** | |
| 12:20-1:40 | Lunch | @ SME, 2nd floor |
| | **Bob The Leader** | |
| 1:40-1:50 | *Friendship, Leadership, and Scholarship in Australian Slang* | Francesco Bullo |
| 1:50-2:00 | *Bitmeadian Accounting* | Magnus Egerstedt |
| 2:00-2:10 | Videos | Anu Annaswamy and Thomas Parisini |
| | **Bob The Mentor and The Practitioner** | |
| 2:10-2:25 | *Remarks* | Wayne Dunstan |
| 2:25-2:35 | *How to Train Your Assistant Professor* | Sylvia Herbert |
| 2:35-2:50 | *Brussels, Bob, and Beer, Oh My!* | Daniel Riggs |
| 2:50-3:05 | *Bob@ANU: Bridging Theory/Practice Gap* | Sam Crisafulli |
| | **Wrap up** | |
| 3:05-3:30 | *Bob The Follower* | Bob himself |

Link to Map — The Cymer Conference Room is located in the 2nd floor of the SME building, room # 248
Link to — We recommend parking at the Gilman Parking Structure (closest) or the Hopkins Parking

# ~~Bob's 60th~~ ~~70th Birthday~~ Tha Bob

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# Brief

1. Bob Tha Professor
2. Bob Tha Author
3. Bob Tha Linguist
4. Bob Tha Gadgeteer
5. Bob Tha Man

# Bob Tha Builder

# Bob Tha Builder


# Brief Outline



# Bob Tha Professor

**2.5** / 5

Overall Quality Based on 38 ratings

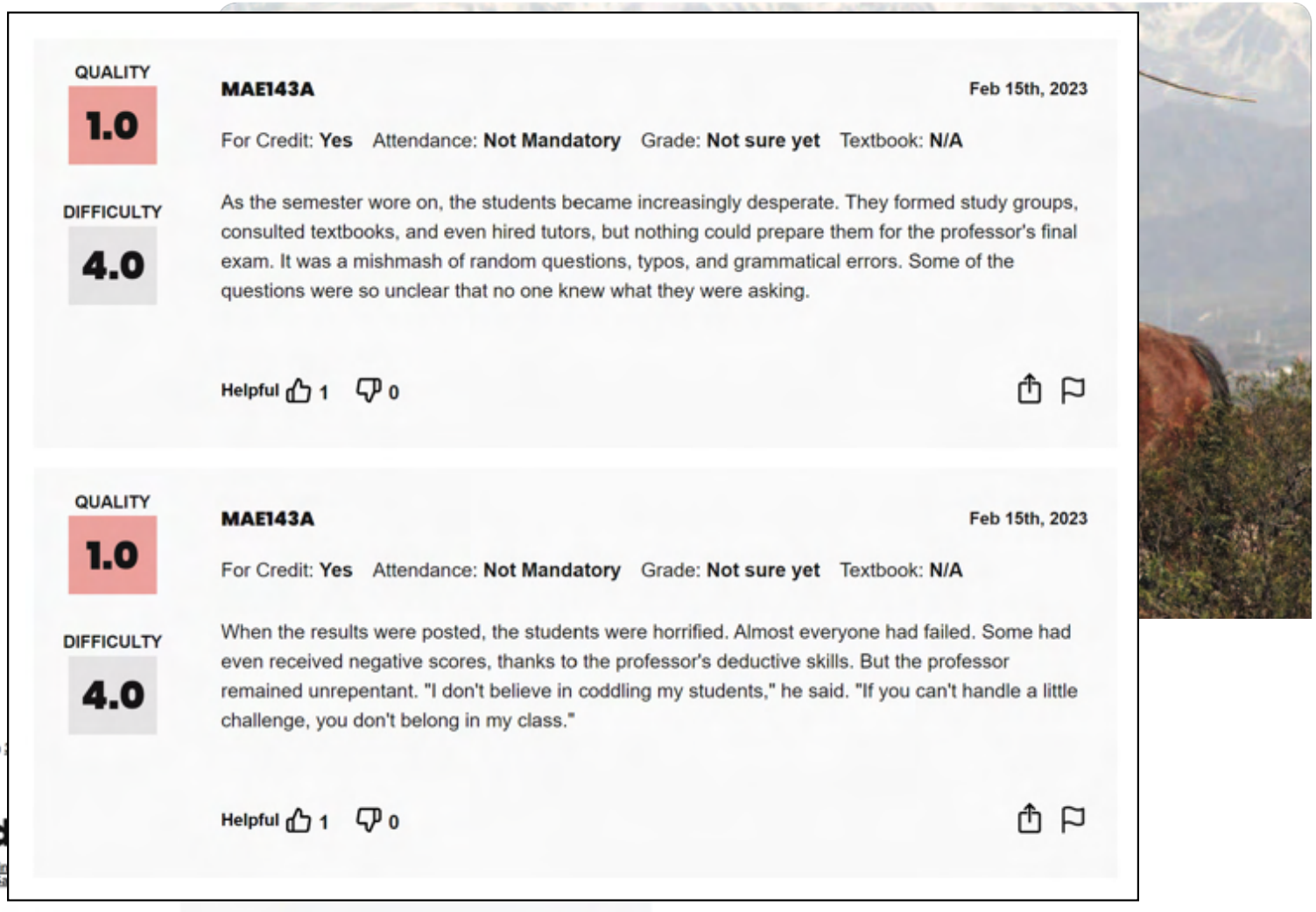
**Robert Bitmead**

Professor in the Engineering department at University of California San Diego

| 65% | 4.2 |
|---|---|
| Would take again | Level of Difficulty |


Check out Similar Professors in the Engineering Department

# Bob Tha Professor



QUALITY
1.0

DIFFICULTY
4.0

**MAE143A** Feb 15th, 2023

For Credit: **Yes** Attendance: **Not Mandatory** Grade: **Not sure yet** Textbook: **N/A**

As the semester wore on, the students became increasingly desperate. They formed study groups, consulted textbooks, and even hired tutors, but nothing could prepare them for the professor's final exam. It was a mishmash of random questions, typos, and grammatical errors. Some of the questions were so unclear that no one knew what they were asking.

Helpful 1 0

QUALITY
1.0

DIFFICULTY
4.0

**MAE143A** Feb 15th, 2023

For Credit: **Yes** Attendance: **Not Mandatory** Grade: **Not sure yet** Textbook: **N/A**

When the results were posted, the students were horrified. Almost everyone had failed. Some had even received negative scores, thanks to the professor's deductive skills. But the professor remained unrepentant. "I don't believe in coddling my students," he said. "If you can't handle a little challenge, you don't belong in my class."

Helpful 1 0

**2.5** / 5

Overall Quality Based on

**Robert Bitmead**

Professor in the Engineering
University of California Sa

**65%** Would take again | **4.2** Level of Difficulty

**Check out Similar Professors in the Engineering Department**

# Bob Tha Professor

**2.5** / 5

Overall Quality Based on 38 ratings

**Robert Bitmead**

Professor in the Engineering department at University of California San Diego

| 65% | 4.2 |
|---|---|
| Would take again | Level of Difficulty |


Check out Similar Professors in the Engineering Department

# Bob Tha Author

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## Adaptive Optimal Control

The Thinking Man's GPC

Robert R. Bitmead
Michel Gevers
Vincent Wertz

SIAM Review
Vol. 30, No. 2, June 1988

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### BOOK REVIEWS

EDITED BY [redacted]

**Stability of Adaptive Systems: Passivity and Averaging Analysis.** *By B. D. O. Anderson, R. R. Bitmead, C. R. Johnson, Jr., P. V. Kokotovic, R. L. Kosut, I. M. Y. Mareels, L. Praly and B. D. Riedle.* The MIT Press, Cambridge, MA, 1986. xx + 326 pp. $35.00. ISBN 0-262-01090-9. The MIT Press Series in Signal Processing, Optimization, and Control, Vol. 8.

In Chapter 2 results are derived under the assumption that **H** is a strictly positive function (SPR) and that the function $\Phi$ is persistently exciting. At the price of further restricting the signals $\Phi$, the SPR-condition can be relaxed. In Chapter 3 a state-space form of (*) is considered:

$$(**) \quad \begin{pmatrix} \dot{\Theta} \\ \dot{x} \end{pmatrix} = \begin{pmatrix} -ed\Phi(t)\Phi(t)^T & -e\Phi(t)c^T \\ b\Phi(t)^T & A \end{pmatrix} \begin{pmatrix} \Theta \\ x \end{pmatrix}.$$

# Bob Tha Author

## Adaptive Optimal Control

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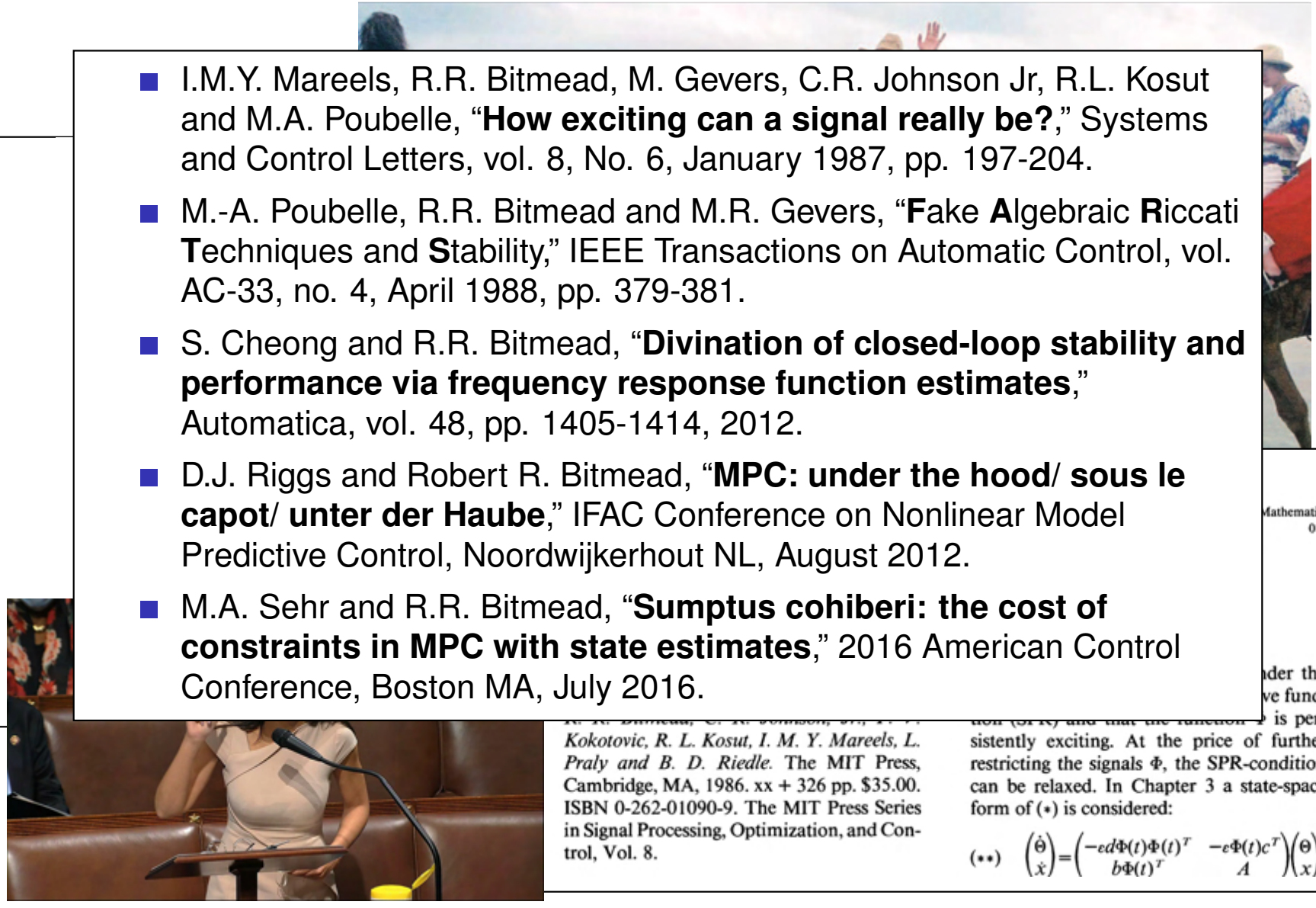
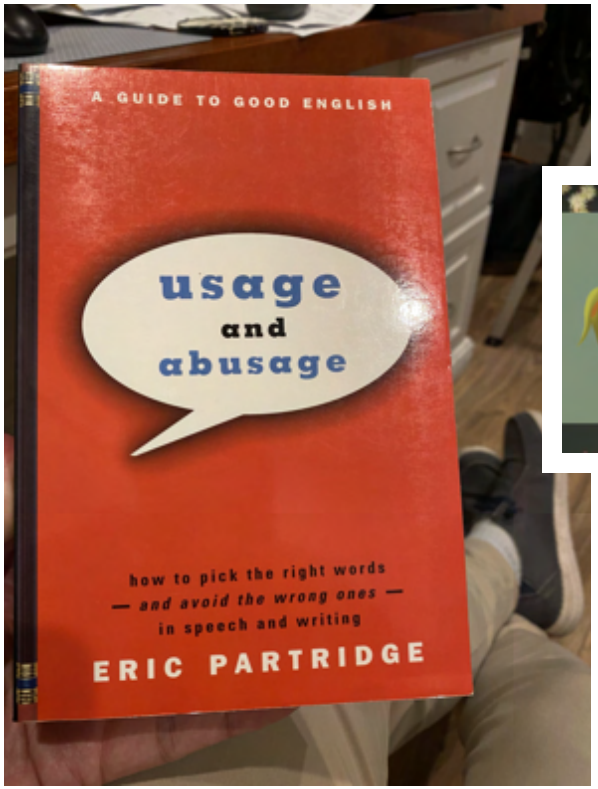
$$(\star\star) \quad \begin{pmatrix} \dot{\Theta} \\ \dot{x} \end{pmatrix} = \begin{pmatrix} -\epsilon d\Phi(t)\Phi(t)^T & -\epsilon\Phi(t)c^T \\ b\Phi(t)^T & A \end{pmatrix} \begin{pmatrix} \Theta \\ x \end{pmatrix}.$$

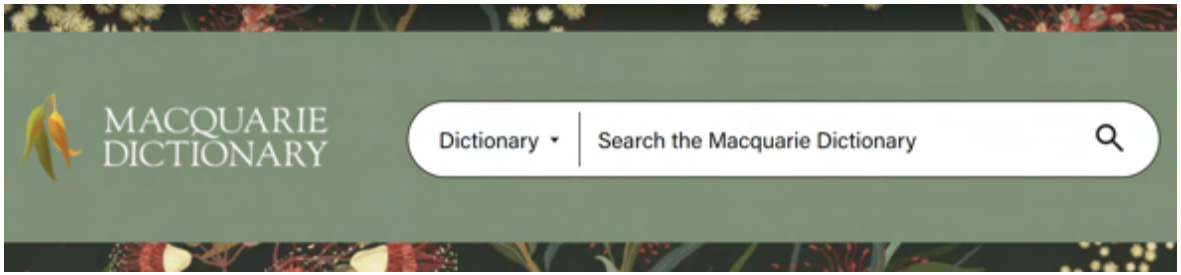
# Bob Tha Author

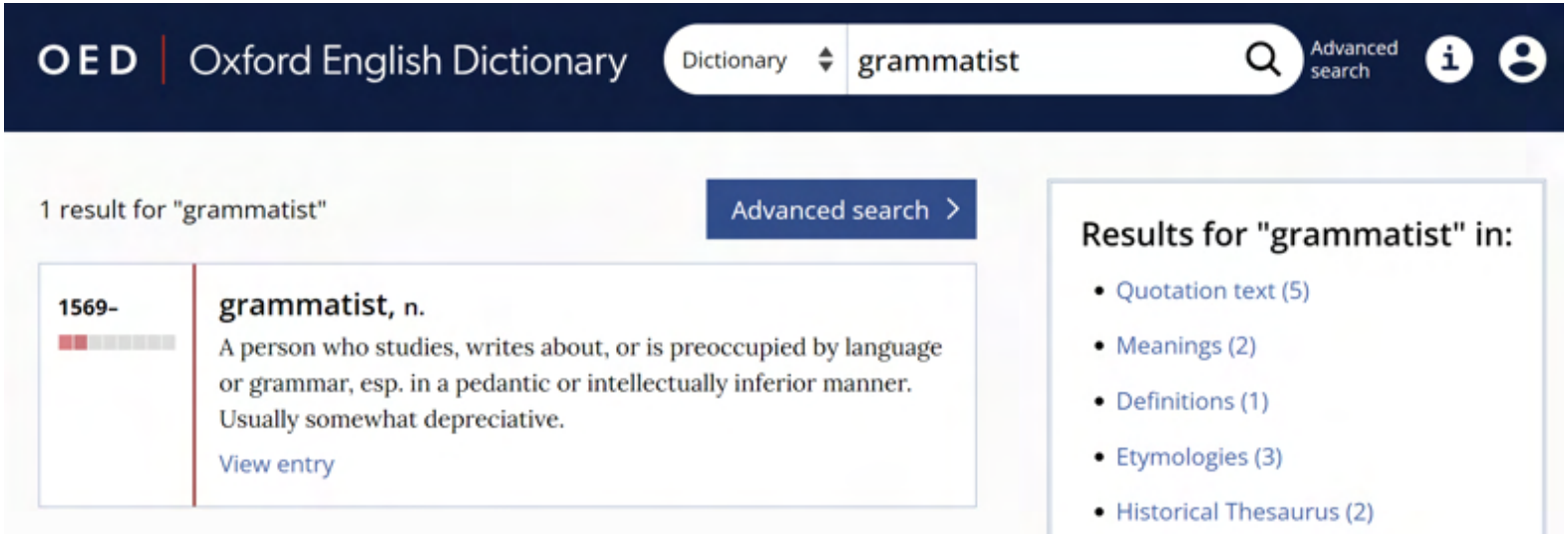


- I.M.Y. Mareels, R.R. Bitmead, M. Gevers, C.R. Johnson Jr, R.L. Kosut and M.A. Poubelle, "**How exciting can a signal really be?**," Systems and Control Letters, vol. 8, No. 6, January 1987, pp. 197-204.
- M.-A. Poubelle, R.R. Bitmead and M.R. Gevers, "**F**ake **A**lgebraic **R**iccati **T**echniques and **S**tability," IEEE Transactions on Automatic Control, vol. AC-33, no. 4, April 1988, pp. 379-381.
- S. Cheong and R.R. Bitmead, "**Divination of closed-loop stability and performance via frequency response function estimates**," Automatica, vol. 48, pp. 1405-1414, 2012.
- D.J. Riggs and Robert R. Bitmead, "**MPC: under the hood/ sous le capot/ unter der Haube**," IFAC Conference on Nonlinear Model Predictive Control, Noordwijkerhout NL, August 2012.
- M.A. Sehr and R.R. Bitmead, "**Sumptus cohiberi: the cost of constraints in MPC with state estimates**," 2016 American Control Conference, Boston MA, July 2016.

# Bob Tha Linguist



# Bob Tha Linguist


the ONION

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AMERICAN VOICES

## New Rule Requires Migrants To Find Lawyer Within 4 Hours of Border Crossing

Published 8 hours ago

According to U.S. Citizenship and Immigration Services, migrants crossing the border into the United States illegally are now required to find a lawyer to represent their case within four hours of crossing if they want to argue their exemption from the asylum restrictions enacted by President Biden on Tuesday. What do *you* think?

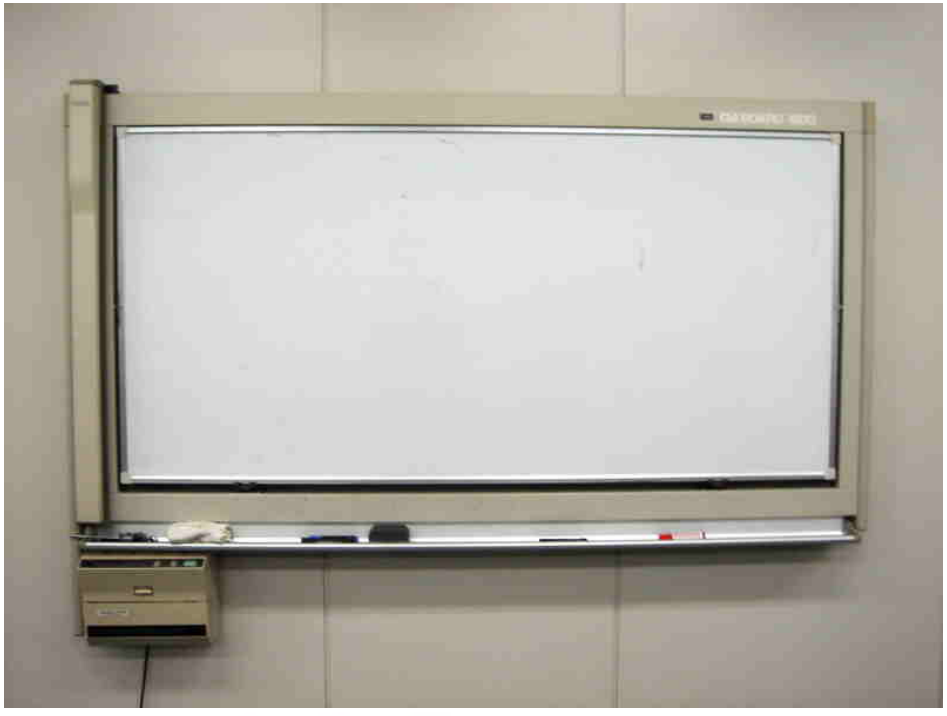
"That's why the Statue of Liberty is engraved with that 800 number."

RIZWAN ONEILL, INFLATION PREDICTOR

"Introducing them to convoluted bureaucracy early on will help them assimilate faster."

JOHN SMART, ROAD MANAGER

# Bob Tha Gadgeteer



# Bob Tha Man

# Bob Tha Man

Happy 70th Birthday!

Happy Retirement!

Jan, we know he was never in Control!